# TECHNICAL MEMORANDUM JUNE 1999 GROUNDWATER MONITORING REPORT

# AMERICAN CHEMICAL SERVICE SUPERFUND SITE GRIFFITH, INDIANA

Montgomery Watson File No. 1252042

## Prepared For:

**ACS RD/RA Executive Committee** 

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November 1999



#### EXECUTIVE SUMMARY

The long term groundwater monitoring plan at the American Chemical Service, Inc. (ACS) National Priorities List (NPL) Site in Griffith, Indiana consists of semi-annual sampling of 44 wells in the monitoring network. In addition, three of the monitoring wells, MW48, MW49, and MW9R are sampled on a quarterly basis and five private wells in the vicinity of the Site are sampled once each year. For one of the semi-annual sampling events, the monitoring well samples are analyzed for the full Target Compound List and Target Analyte List (TCL/TAL) parameters. For the other semi-annual sampling event, the samples are analyzed for a reduced list of indicator parameters.

This Technical Memorandum summarizes the June 1999 groundwater monitoring activities at the ACS NPL Site. The June sampling combined the semi-annual 44-well sampling event with the collection of samples for the Monitored Natural Attenuation (MNA) study. All samples and analyses were conducted in accordance with the September 1997 U. S. Environmental Protection Agency (U.S. EPA)-approved sampling plan.

#### SITE HYDROGEOLOGY

The regional groundwater flow in the upper aquifer is from east to west in the vicinity of the ACS facility. At the ACS Site, the flow is diverted to the north and to the south by the barrier wall, installed as part of the ACS Remedy. The potentiometric surface to the northwest of the Site is relatively flat due to the effects of the Perimeter Groundwater Containment System (PGCS) trench, barrier wall, and discharge points from the groundwater treatment plant effluent. Depressed water levels in the Town of Griffith Landfill indicate the activity of the landfill's leachate collection system (LCS).

Horizontal groundwater flow in the lower aquifer is northward with a hydraulic gradient of 0.00038. This gradient and direction is consistent with previous lower aquifer data presented in previous groundwater monitoring reports.

Vertical gradients were calculated across three aquifer horizons: 1) the upper aquifer in the wetland area, 2) the upper and lower aquifers, and 3) the lower aquifer. All gradients were consistent with previous findings. Vertical gradients measured in the wetland area were upwards and were generally very low. Downward vertical gradients were measured between the upper and lower aquifer. Vertical gradients measured in the lower aquifer were low and variable; of the calculated gradients, five were downward, four were upward, and four were within the margin of potential error in water level measurement. Consistent vertical gradient trends are seen in two well nests in the lower aquifer, MW52/MW53 and MW28/PZ43; however, they are downward and upward, respectively. This variability indicates that there may not be an overall trend in vertical gradient data in the lower aquifer.

#### ANALYTICAL RESULTS – UPPER AQUIFER

For discussion purposes, the upper aquifer flow system was divided into three regions for analysis: the North Area, South Area, and the Griffith Landfill. The North Area extends northward from the north end of the Site near the On-Site Containment Area and west/northwest into the wetlands, and the South Area extends southeasterly from the barrier wall at the southern end of the Off-Site Area.

Twenty-three wells from the upper aquifer were sampled during June 1999. Several volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides/poly-chlorinated biphenols (Pest/PCBs), and inorganics were detected. Chloroethane and benzene were detected at significant concentrations at monitoring wells M4S, MW6, MW45, MW48, and MW49. Although acetone exceeded the baseline concentrations in wells MW19 and MW06, these analytes were also found in the laboratory blank and are probably a laboratory artifact. VOCs were either not detected or detected at low concentrations in the upgradient wells, edge wells, and downgradient North Area wells. Several SVOCs, Pest/PCBs, and inorganics were detected in the upper aquifer at very low concentrations.

Detection of VOCs, SVOCs, Pest/PCBs, and Inorganics were compared to the maximum baseline concentrations for each well. VOC baseline exceedances were detected in June samples from wells M-4S, MW6, and MW19. SVOC baseline exceedances were detected in wells M4S, MW19, and MW38. Pest/PCB exceedances were detected in well MW06. Based on statistical analysis of inorganic data, exceedances were detected in sixteen upper aquifer wells.

#### **ANALYTICAL RESULTS - LOWER AQUIFER**

In the lower aquifer, twenty-one wells were sampled during June 1999. VOCs, SVOCs, Pest/PCBs, and inorganics were detected in groundwater samples from these wells. Benzene and chloroethane continues to be detected in MW9R and MW10C. Benzene and chloroethane concentrations exceed baseline values in well MW10C (However, preliminary results from the laboratory indicate that the benzene and chloroethane concentrations in the sample decreased again in the September sample). None the detected SVOC or Pest/PCB detections exceeded their baseline values in the lower aquifer wells. Several inorganics exceeded the baseline levels in seventeen lower aquifer wells.

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#### 1.0 INTRODUCTION

#### 1.1 LONG TERM GROUNDWATER MONITORING PLAN

The long term groundwater monitoring plan, approved by U.S. EPA in September 1997, for the American Chemical Service, Inc. (ACS) National Priorities List (NPL) Site in Griffith, Indiana consists of two major (semi-annual) sampling events each year and two minor sampling events. The major sampling events consist of sample collection at 44 monitoring wells in the monitoring network. For one of the semi-annual sampling events, the groundwater samples are analyzed for full scan target compound list and target analyte list (TCL/TAL) parameters. For the other semi-annual sampling event, the samples are analyzed for a reduced list of indicator parameters. The indicator parameters are tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-trichloroethane (TCA), 1,2-dichloroethene (DCE), 1,2-dichloroethane (1,2-DCA), vinyl chloride (VC), chloroethane, benzene, arsenic, and lead.

The minor sampling events consist of sampling three monitoring wells within the monitoring network, which have shown variable contaminant concentrations during the baseline sampling. These include upper aquifer monitoring wells MW48 and MW49, and lower aquifer monitoring well MW9R. Samples from monitoring wells MW48 and MW49 are analyzed for the indicator parameters and the sample from MW9R is analyzed for the full TCL/TAL parameter list.

Once annually, samples are collected from five private wells near the Site and analyzed for the full TCL/TAL parameter list.

#### 1.2 OBJECTIVES AND SCOPE OF JUNE 1999 SAMPLING

The June 1999 sampling event was a major sampling event consisting of sample collection at 44 monitoring wells. Thirty-seven samples were analyzed for the full TCL/TAL parameter list, and seven samples for the reduced list of indicator parameters. As part of the two year Monitored Natural Attenuation (MNA) study, groundwater samples were also collected from eight monitoring wells for biological parameter analysis.

The following requirements from the long-term groundwater monitoring plan apply to the June 1999 semi-annual sampling at the ACS NPL Site.

- 1. Collect water level data to monitor groundwater flow in the upper and lower aquifers and calculate the hydraulic gradients between the aquifers.
- 2. Collect water level data to document the performance of the Perimeter Groundwater Containment System (PGCS) and Barrier Wall Extraction System (BWES) and to evaluate changes in the groundwater flow system resulting from the remedial actions (these activities are outlined in the

Performance Standard Verification Plan, April 1997). The Groundwater Treatment Plant Quarterly Monitoring Report is submitted under separate cover and includes information on this objective.

- 3. Collect and analyze groundwater samples from upgradient monitoring wells in the upper and lower aquifer to document background groundwater quality.
- 4. Collect and analyze groundwater samples from the monitoring wells at the downgradient boundaries of the Site to closely monitor the status of the boundaries of groundwater impacts.
- 5. Collect and analyze groundwater samples from the interior of the areas of contaminated groundwater to document how concentrations change with time and in response to the remedial actions.
- 6. Assess progress toward attaining cleanup objectives in contaminated areas.

#### 1.3 ORGANIZATION OF TECHNICAL MEMORANDUM

The results of the June 1999 groundwater monitoring activities at the ACS NPL Site are presented in the following sections of this report:

- Section 1 Objectives and scope of the groundwater monitoring activities
- Section 2 Field data collection activities
- Section 3 Evaluation of the June 1999 sampling data
- Section 4 Summary and Conclusions

Tables, figures, and appendices are presented at the end of this report.

A baseline sampling report was completed following the September 1997 sampling event and included a long-term Groundwater Monitoring Plan. In accordance with the U.S. EPA approved Groundwater Monitoring Plan, this Technical Memorandum compares the June 1999 groundwater analytical results to the highest detected concentrations observed for each well and parameter during the baseline sampling. This comparison table is found in Appendix A.

#### 2.0 FIELD DATA COLLECTION ACTIVITIES JUNE 1999

Field activities were conducted from June 7 through June 16, 1999 at the ACS Site. The groundwater monitoring activities were conducted in accordance with the U.S. EPA-approved Specific Operating Procedures (SOPs), the draft Quality Assurance Project Plan (QAPP), and U.S. EPA comments regarding the draft QAPP. The June 1999 groundwater sampling event consisted of the following activities:

- Measurement of water levels in 149 upper and lower aquifer monitoring wells, piezometers, and staff gauges on June 7, 1999.
- Upper aquifer monitoring: collection of groundwater samples from 19 monitoring
  wells screened in the upper aquifer and analyses for TCL/TAL parameters;
  collection of groundwater samples screened in the upper aquifer from 4
  monitoring wells for indicator parameters; and collection of groundwater samples
  from 8 monitoring wells screened in the upper aquifer and analyses for additional
  natural attenuation parameters.
- Lower aquifer monitoring: collection of groundwater samples from 18 monitoring wells screened in the lower aquifer and analyses for TCL/TAL parameters; and 3 monitoring wells for indicator parameters.

Groundwater samples were collected from June 9 through June 16, 1999.

#### 2.1 WATER LEVELS

Water level measurements were collected at upper and lower aquifer wells, piezometers, and surface water staff gauges on June 7, 1999. The water level measurements were utilized to determine groundwater flow directions in the upper and lower aquifers, and vertical gradients both within and between the aquifers. Table 1 contains water level measurements, map coordinates (reference points), top of inside well casing elevations, and calculated groundwater elevations for the measurement points.

#### 2.2 GROUNDWATER SAMPLING

The groundwater samples for the June 1999 event were sent overnight under chain-of-custody to CompuChem Laboratory, Cary, North Carolina, where they were analyzed for the analytical parameters summarized in Tables 2 and 3. The tables summarize well identification, well screen depth (lower aquifer only), area of groundwater contamination, location with respect to area of groundwater contamination, and monitoring parameters.

Prior to sampling, each monitoring well was purged using low-flow methods in accordance with the U.S. EPA approved Monitoring Well Sampling SOP for the Upper Aquifer Investigation (revision: March 21, 1997). Field parameters (pH, specific conductivity, temperature, dissolved oxygen (DO), oxidation-reduction potential, and turbidity) were measured and recorded during well purging activities. Table 4 presents a summary of the field parameter results.

#### 3.0 EVALUATION OF JUNE 1999 SAMPLING DATA

#### 3.1 GROUNDWATER FLOW SYSTEM DATA

Water table and potentiometric surface maps were developed for the upper and lower aquifers and the overall horizontal hydraulic gradient was calculated for the lower aquifer. Vertical hydraulic gradients were calculated across three aquifer horizons: 1) within the upper aquifer in the wetland area, 2) within the lower aquifer, and 3) between the upper and lower aquifers. The following sections present and discuss the general flow directions in the upper and lower aquifers and the calculated gradients.

Vertical hydraulic gradients were calculated for both the upper and lower aquifers using water level measurement data from adjacent wells and piezometers screened at different depths within each aquifer.

#### 3.1.1 Groundwater Flow in the Upper Aquifer

The upper aquifer matrix is a homogeneous silty sand with no evidence of interlayering or bedding complexities. Little interpolation was required to develop detailed contour plots because of the large number of data points (8 staff gauges, 31 wells, and 73 piezometers). All water table maps developed for the ACS Site since the remedial investigation in 1991 have consistently shown the same general groundwater flow patterns. The contour lines defining the water table show consistent groundwater flow pathways from upgradient to downgradient areas.

The barrier wall has affected the groundwater flow by preventing groundwater flow directly to the west from the area east of Colfax Avenue. The natural regional groundwater flow is diverted north/northwest around the north end of the barrier wall and to the south/southeast. Figure 1 presents the upper aquifer water table elevations from data collected on June 7, 1999.

#### 3.1.2 Vertical Gradients in the Upper Aquifer

Table 5 shows the upper aquifer vertical gradient calculations based on the June 1999 water level measurements. These are shown in their historical context in the tabulation below:

Piezometer	March	June	Sept	Dec	June	Sept	Nov	March	June
Nest	1997	1997	1997	1997	1998	1998	1998	1999	1999
P64/P65	0.016	-0.062	0.022	0.016	0.020	0.016	0.016	0.018	0.014
P66/P67	-0.003	0.013	0.007	0.002	0.005	0.004	0.003	WU:	0.006
P68/P69	0.010	0.002	0.003	0.007	0.003	0.005	WU	0.005	0.012
P70/P71	0.030	0.042	0.035	0.037	0.023	0.057	0.073	0.040	0.042

Notes:

WU = Within uncertainty of measurement technique.

As in the past, the vertical gradients in the upper aquifer were calculated by dividing the difference in head between nested piezometers by the vertical distance between screen midpoints. From these accumulated data, it is apparent that the vertical gradients are generally upward, which is the typical occurrence in a wetland area where groundwater discharges to the surface.

#### 3.1.3 Groundwater Flow in the Lower Aquifer

The lower aquifer groundwater elevations listed in Table 1 were used to develop a potentiometric surface map for the lower aquifer (Figure 2). The groundwater flow in the lower aquifer is northward, consistent with historical groundwater data. The horizontal hydraulic gradient in the lower aquifer was calculated using the measured difference in head between MW50, located south of the Site, and MW52, located northwest of the Site in the wetlands. This difference, 0.92 feet on June 7 1999, was divided by the lateral distance between the two wells (2,429 feet). Based on this calculation, the horizontal hydraulic gradient in the lower aquifer is 0.00038. This is consistent with the relatively low gradients historically calculated for the lower aquifer, as summarized below.

Report of Hydraulic Gradient in	Horizontal Hydraulic Gradient	
Technical Memorandum	(October 1995)	0.00041
Lower Aquifer Tech Memo	(September 1996)	0.00047
Groundwater Monitoring Report	(August 1996)	0.00047
Groundwater Monitoring Report	(November 1996)	0.00049
Groundwater Monitoring Report	(March 1997)	0.00040
Groundwater Monitoring Report	(June 1997)	0.00044
Groundwater Monitoring Report	(September 1997)	0.00035
Groundwater Monitoring Report	(December 1997)	0.00039
Groundwater Monitoring Report	(June 1998)	0.00042
Groundwater Monitoring Report	(September 1998)	0.00029
Groundwater Monitoring Report	(December 1998)	0.00024
Groundwater Monitoring Report	0.00033	
June 1999 Groundwater Monitorin	g Report	0.00038

#### 3.1.4 Vertical Gradients in the Lower Aquifer

Seven nested well sets are screened in the lower aquifer. At each location, there are two or three monitoring wells and/or piezometers, each screened at a different depth within the lower aquifer. The depth intervals include the upper portion, the middle portion, and the lower portion.

The water levels measured in each of these wells (Table 1) were used to calculate vertical hydraulic gradients in the lower aquifer at each location. Table 6 summarizes the calculated vertical gradients. Calculated vertical gradients from June 1999 are shown in their historical context in the following tabulation:

Well/Piezometer Nest	June 1997	Sep 1997	Dec 1997	June 1998	Sep 1998	Nov 1998	Mar 1999	June 1999
MW7/PZ44	-0.0010	WU	-0.0005	WU	NA	WU	WU	WU
MW8/MW32	WU	NA	WU	WU	WU	-0.0033	0.0011	-0.0007
MW9R/MW34	WU	WU	WU	NA	WU	0.0006	WU	0.0037
MW30/MW33	WU	WU	-0.0040	NA	NA	WU	WU	-0.0058
MW28/PZ43	WU	WU	WU	0.0021	0.0045	0.0008	0.0011	0.0025
MW52/MW53	-0.0004	-0.0004	-0.0008	-0.001	-0.0006	-0.0008	-0.0012	-0.0008
MW54R/MW55	WU	wu _	-0.0012	NA	NA	NA	-0.0069	-0.0077

Notes

WU = Within uncertainty of measurement technique

NA = A water elevation necessary for the calculation was not available.

The majority of the calculated vertical gradients across the lower aquifer indicate a downward gradient. However, most of the accumulated data are variable. The only consistent vertical gradients seen are observed at well nests MW28/PZ43 and MW52/MW53.

### 3.1.5 Vertical Gradient Between Upper and Lower Aquifer

Groundwater elevations from upper and lower aquifer monitoring points were utilized to calculate the vertical hydraulic gradient between the two aquifers at three locations (P28/MW8, P27/MW9R, and P8/MW7). These are summarized in Table 7 and are consistent with previous findings. Vertical gradients were calculated by dividing the difference in head between the upper and lower aquifer wells by the thickness of the clay-confining layer between the two wells. The results show that there is a relatively strong and downward gradient between the two aquifers. The average groundwater elevations in the upper and lower aquifers are approximately 631 and 623 feet above mean sea level (amsl), respectively. The confining clay layer between the upper and lower aquifer varies in thickness from greater than 30 feet in the south to less than 5 feet in the wetland to the northwest (MW10C area). The variability in calculated downward gradients are due, therefore, to the variable thickness of the clay confining layer rather than the difference in head between the upper to lower aquifer.

#### 3.2 MONITORING WELL SAMPLE DATA

Groundwater samples were analyzed for full-scan TCL/TAL parameters, indicator parameters (PCE, TCE, TCA, DCE, 1,2-DCA, VC, chloroethane, benzene, arsenic, and lead), and natural attenuation parameters (sulfate, ortho-phosphate, total organic carbon (TOC), total kjeldahl nitrogen (TKN), nitrate, nitrite, ammonia, and biological oxygen demand (BOD)). The laboratory results were validated in accordance with U.S. EPA Region V guidelines, U.S. EPA Contract Laboratory Program National Functional Guidelines For Organic Data Review (2/94) and Inorganic Data Review (2/94). Evaluation of the data is discussed in Section 4.0. Validation narratives and laboratory analytical reports for samples from the upper aquifer and the lower aquifer are provided in Appendices C and D, respectively.

The analytical results for the June 1999 quarterly sampling were evaluated for evidence of contaminant migration, changes in contaminant concentrations over time in response to remedial actions, and the presence of contaminants in the lower aquifer. Time trend plots for selected monitoring wells are presented in Appendix B. The following sections summarize the results of the organic analyses in the upper aquifer (Section 3.2.1), the organic analyses in the lower aquifer (Section 3.2.2), and the inorganic analyses in both aquifers (Section 3.2.3).

#### 3.2.1 Groundwater Sampling Results in the Upper Aquifer

The ACS Site, except for the wetlands, has been identified as the source of groundwater contamination in the upper aquifer. The Site source areas are presently contained within the barrier wall, which contains the source and prevents future migration of contaminants to the adjacent areas. Because the source is contained, the groundwater monitoring program is focused on the adjacent areas not confined by the barrier wall. These surrounding areas are: the area north and west of the ACS Facility, referred to as the North Area; the area south/southeast of Colfax, referred to as the South Area; and the Town of Griffith Landfill, which covers the area to the southwest of the ACS Site.

Table 8 and Figure 3 present a summary of TCL organic compounds detected in upper aquifer groundwater samples collected from wells during the June 1999 sampling event.

#### 3.2.1.1 **VOCs**

Figure 3 shows the location of VOC detections in the upper aquifer on a map of the area surrounding the ACS Site. The contamination in the three surrounding areas is comprised primarily of chloroethane and benzene. Methylene chloride was detected in one well, MW06. Other VOCs were detected less frequently and at relatively low concentrations.

North Area. The North Area is monitored by an array of groundwater wells located hydraulically upgradient of the North Area, within the North Area, at the edge (side gradient) of the North Area, and hydraulically downgradient from the edge of the North Area. These wells are as follows:

Upgradient (east/northeast of Site)	Interior (north of Site)	Side Gradient (north of Site)	Downgradient (north of Site)
MW11	MW13	MW39	MW37
MW12	MW48		MW38
MW40	MW49	•	•

The contamination in the North Area is comprised primarily of chloroethane and benzene. Benzene was not detected in the groundwater in the upgradient wells. Benzene was detected at side-gradient well MW39, however, the estimated concentration of benzene (2  $\mu$ g/L) is below the baseline concentration. During the December 1998 sampling event, benzene was detected in upgradient well MW12 at a concentration of 16  $\mu$ g/L, which

exceeded its background level (10  $\mu$ g/L). Since benzene was not detected again in the June sampling event, no increasing concentration trend is evident, and therefore no response action to the baseline exceedance at MW12 is necessary.

Chloroethane and benzene continue to be detected in two of the three interior wells, MW48 and MW49, with concentrations within the range of previous detections. Time trend plots for these compounds are found in Appendix B. The VOC concentrations for the interior wells in June 1999 do not exceed maximum baseline concentrations.

Chloroethane and benzene were not detected in interior well MW13. MW13 is located in the wetland area on the west side of the Site and is downgradient of interior wells MW48 and MW49 in which the highest chloroethane and benzene concentrations have historically been detected in the North Area. The following table summarizes historical chloroethane and benzene detections in MW13:

### Monitoring Well MW13 (Upper Aquifer)

Sampling Date	Chloroe	thane	Benz	zene
November 1996	97	μg/L	6	μg/L
March 1997	330	μg/L	170	μg/L
June 1997	570	μg/L	610	μg/L
September 1997	160	μg/L	33	μg/L
December 1997	20	μg/L	ND	
June 1998	82 J	μg/L	2.0 J	μg/L
December 1998	ND		ND	
June 1999	ND_		ND	

#### Note

J qualifier indicates concentration is estimated.

ND indicates compound was not detected

**South Area.** The South Area is monitored by an array of groundwater wells located hydraulically upgradient of the South Area, within the South Area, at the edge (side gradient) of the South Area, and hydraulically downgradient from the edge of the South Area. These wells are as follows:

Upgradient (south/east of Site)	Interior (south/southeast of Site)	Side Gradient (south/southeast of Site)	Downgradient (southeast of Site)
MW18	MW6	MW41	MW15
	MW45	MW44	MW42
	MW19	MW47	MW43

As in the North Area, contamination in South Area wells primarily consists of chloroethane and benzene. These contaminants were not detected in upgradient, side-gradient, or downgradient wells, except for a relatively low, estimated detected concentration of benzene in well MW15, which was below maximum baseline concentrations.

Chloroethane and benzene were detected in interior wells MW6, MW19, and MW45. Neither concentrations for benzene or chloroethane exceeded baseline concentrations in these wells. Methylene chloride was detected in well MW6 at a concentration of 140 ug/L, which exceeds the maximum baseline concentration for this well. In accordance with the groundwater monitoring plan, we will wait until the next semi-annual sampling event to evaluate whether this is an increasing concentration trend. Acetone was detected at several wells in the South Area. Concentrations of acetone in wells MW6 and MW19 exceeded the maximum baseline concentration for these wells. However, acetone was detected in the blank for both of these samples and is a common lab contaminant. The concentrations of benzene and chloroethane detected at well MW6 have fluctuated over time. Since groundwater flow was changed the most by the barrier wall in the vicinity of MW06, we believe that this variability in concentration and compounds at MW06 are a result of this change in groundwater flow pattern.

#### **Monitoring Well MW6 (Upper Aquifer)**

Sampling Date	Chloro	ethane	Ben	zene
November 1996	720	μg/L	320	μg/L
March 1997	67	μg/L	35	μg/L
June 1997	140	μg/L	39	μg/L
September 1997	140	μg/L	140	μg/L
December 1997	550 J	μg/L	1,900	μg/L
June 1998	350 J	μg/L	72 J	μg/L
December 1998	840	μg/L	930	μg/L
June 1999	78	μg/L	180	μg/L

Note

J qualifier indicates concentration is estimated.

The concentrations of chloroethane and benzene in MW45, interior to the South Area of contamination, appear to be decreasing, as shown in the following table.

#### **Monitoring Well MW45 (Upper Aquifer)**

Sampling Date	Ben	zene	Chloroethane
August 1996	530	μg/L	82 J μg/L
March 1997	1,045	μg/L	215 μg/L
June 1997	940	μg/L	120 μg/L
September 1997	860	μg/L	120 μg/L
December 1997	670	μg/L	130 J μg/L
June 1998	670 J	μg/L	120 J μg/L
December 1998	500	μg/L	88 μg/L
June 1999	360	μg/L	38 μg/L

Notes

J qualifier indicates concentration is estimated.

ND indicates compound was not detected

Groundwater Monitoring Report

November 1999

American Chemical Services Inc.

During the December 1998 sampling event, chloroethane was detected above the baseline concentration in MW19. Since it was not detected at concentrations above the baseline concentration during this event, it does not appear to be an increasing trend.

Griffith Landfill. The Griffith Landfill covers the area to the southwest of the Off-Site Containment Area of the Site. Three upper aquifer wells were sampled within the landfill area: Griffith Landfill wells M-1S and M-4S, and monitoring well MW15.

Chloroethane and benzene were detected in the sample collected at M-4S, located at the northeast boundary of the landfill. Benzene was also detected in wells at relatively low, estimated concentrations at M1S and MW15. None of the benzene concentrations exceeded the baseline concentrations. The concentration of chloroethane in M-4S (1,600 ug/L) exceeded the baseline concentration established at the well (1,300 ug/L). This concentration decreased from the previous event (2,000 ug/L; December 1998). Because M-4S is located on the Landfill property and groundwater quality at this location is strongly influenced by landfill activities, we will continue to monitor M4S to evaluate if the concentration of chloroethane continues to decrease.

#### 3.2.1.2 SVOCs

The SVOC concentrations reported for the June 1999 groundwater monitoring activities were generally consistent with historical concentrations. SVOC compounds detected in groundwater samples collected from the upper aquifer monitoring wells included bis(2-chloroethyl)ether, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 2-methylnaphthalene, 2,2'-oxybis(1-chloropropane), isophorone, naphthalene, 2,4-dimethylphenol. Phenol and bis(2-chlorohexyl)phthalate were also detected, but appear to be related to tubing used for sampling, or from laboratory artifacts. Table 8 summarized the TCL organic compounds detected in the upper aquifer.

Concentrations of SVOCs at wells M4S, MW19, and MW38 exceeded maximum baseline concentrations for those wells. Bis(2-chloroethyl)ether exceeded the baseline concentration at wells M4S and MW19. Compared to the December 1998 event, the concentration of bis(2-chloroethyl)ether in M4S has decreased, while the concentration of bis(2-chloroethyl)ether in MW19 has increased. Bis(2-chlorohexyl)phthalate was detected in MW38 (11 ug/L) above the baseline concentration for that well (10 ug/L). This minor exceedance appears to be random detection, consistent with the documented occurrence of laboratory contamination.

Fourteen of the SVOC groundwater samples collected in June 1999 were analyzed past their holding times, and many other samples were qualified due to laboratory problems (see Appendix C and D). As approved by U.S. EPA, there is no need to resample the wells for SVOCs again, since, as part of the ongoing long-term groundwater monitoring plan, these wells will be sampled again for SVOCs within the next six months.

#### 3.2.1.3 Pesticides and PCBs

Several pesticides and PCBs were detected in upper aquifer groundwater samples collected in June 1999. These concentrations are very low and show no consistent pattern from one sampling event to the next. One pesticide, beta-BHC, was detected in well MW6 at a concentration of 0.36 ug/L, which exceeds the baseline concentration for that well (0.05 ug/L). However, beta-BHC was also found in the associated blank. Furthermore, pesticides and PCBs do not appear to be characteristic contaminants at the site.

#### 3.2.1.4 Tentatively Identified Compounds (TICs)

Tentatively identified compounds (TICs) were detected in several upper aquifer monitoring wells. Most TICs are reported as unknown, however, benzene-related compounds were detected in MW40 and MW45, and tetrahydrofuran was identified in M4-S and MW06. Ether was a TIC in wells M-1S, MW6, MW13, MW19, MW46. 3,3,5-trimethyl-cyclohexane was found in MW06 and MW48. Unknown SVOCs TICs were identified in M4-S, MW06, MW13, MW15, MW18, MW19, MW38, MW39, MW41, MW42, MW43, MW44, MW45, MW46, MW47, and MW48. The complete listing of TICs for individual monitoring wells is compiled in Appendix C along with the upper aquifer analytical results.

#### 3.2.2 Groundwater Sampling Results from the Lower Aquifer

Table 9 presents a summary of TCL organic compounds detected in groundwater samples collected from lower aquifer monitoring wells during the June 1999 sampling event.

#### 3.2.2.1 VOCs

Figure 4 summarizes the VOC detections in groundwater samples collected from lower aquifer monitoring wells. Benzene was detected at three wells, MW09R, MW10C, and MW53, and chloroethane was detected at two wells, MW09R and MW10C. Acetone and methylene chloride were detected in 15 of the 21 lower aquifer wells, although they were also detected in the associated blank in 12 of the 15 wells. Except for in MW09R, MW10C, and MW53, the concentrations were relatively very low and estimated values.

Benzene was detected in MW9R at a concentration of 160  $\mu$ g/L, which is below the baseline maximum concentration. Chloroethane was detected at 490  $\mu$ g/L, which is also below the baseline concentration. The following tabulation shows the concentration of benzene since monitoring began in 1991.

MW9	Jan	Jan	Nov	Mar	Jun	Sept	Dec	June*	Dec*	Mar*	Jun*
VOC	1991	1995	1996	1997	1997	1997	1997	1998	1998	1999	1999
Benzene μg/L	<5	40	310	310	280	290	260	110	160	130	160

<sup>\*</sup>sample collected from replacement well MW9R

Two other VOCs, acetone and methylene chloride, were detected in MW9R below baseline concentrations.

Concentrations of benzene  $(2,000 \mu g/L)$  and chloroethane  $(2,600 \mu g/L)$  in MW10C exceeded the baseline concentrations for that well. These concentrations are significantly

higher than the concentrations detected in December 1998. Acetone and methylene chloride were detected above maximum baseline concentrations in wells MW10C and MW53. Acetone was found in the laboratory blank associated with MW09R and MW53, while methylene chloride was found in the laboratory blank associated with MW10C. It is Montgomery Watson's opinion that acetone and methylene chloride measured in the sample from MW10C and MW53, are likely laboratory artifacts. The presence of benzene, chloroethane, acetone, and methylene chloride in MW9R, MW10C, and MW53 will be monitored in upcoming sampling events. (Due to the large increase in benzene and chloroethane in MW10C, Montgomery Watson contacted the laboratory in order to receive preliminary results for the September 1999 sampling event for MW10C. The laboratory indicated that the results for samples collected from MW10C in September 1999 were 83 µg/l for chloroethane. These results are similar to historical concentrations and are baseline concentrations).

#### 3.2.2.2 SVOCs

SVOCs were analyzed from eighteen monitoring wells in the lower aquifer as part of the June 1999 groundwater monitoring activities. Two SVOCs were detected at very low and estimated concentrations in several wells: bis(2-ethylhexyl)phthalate and bis(2-chloroethyl)ether. None of the SVOC detections exceeded the maximum baseline concentrations. All the reported concentrations are estimated with the exception of bis(2-chloroethyl)ether (13 ug/L) in MW09R and bis(2-ethylhexyl)phthalate (14 ug/L) in MW53. Bis(2-ethylhexyl)phthalate was also found in the laboratory blank for two samples in the lower aquifer. Bis(2-chloroethyl)ether has been detected previously in MW09R at concentrations consistent with the most recently concentrations.

#### 3.2.2.3 Pesticides and PCBs

Pesticides and PCBs were analyzed from eighteen wells in the lower aquifer as part of the June 1999 groundwater monitoring activities. Several pesticides were detected at all were at relatively low and estimated concentrations. About half of the detections were found in the laboratory blanks, and most had a "P" qualifier, which refers to an analytical inconsistency during Pest/PCB analysis. None of these compounds exceeded the baseline concentrations.

#### 3.2.2.4 Tentatively Identified Compounds (TICs)

TICs were detected in several lower aquifer monitoring wells. The TICs primarily consist of ether, 1,4-dioxane, and tetrahydrofuran which were tentatively identified in ATMW4-D, MW9R, MW10C, MW33, MW51, MW52, and MW53. 3,3,5-trimethylcyclohexane was tentatively found in MW53. Unknown SVOCs TICs were identified in MW08, MW9R, MW10C, ATMW4-D, MW23, MW28, MW29, MW30, MW31, MW32, MW33, MW51, MW52, MW53, MW54R, and MW55. The complete listing of TICs for individual monitoring wells is compiled in Appendix D along with the other lower aquifer analytical results.

#### 3.2.3 Inorganic Chemical Species

The June 1999 inorganic results are compiled in Appendix A along with the maximum baseline concentrations. Table 10 summarizes the baseline exceedances of the inorganic analyses during the June 1999 sampling event. Three-fourths of the wells, 33 of 42, had at least one inorganic exceedance of a baseline value, and about eighty percent of the inorganic species, 19 of 24, exceeded a baseline maximum in at least one well. There were no exceedances of aluminum, beryllium, lead, silver, or zinc, and these are not included on Table 10.

A total of 1,008 inorganic analyses were performed for the June 1999 groundwater sampling event (24 species at 42 wells). Of these, 89 detections (about 9%) exceeded the maximum concentrations recorded during the four quarters of baseline sampling. The first step in the evaluation of inorganic analyses is to screen out the 'statistical noise' and identify the occurrences that have potential statistical significance. The second step is to highlight the results that appear to have a correlation to or with groundwater impacts.

#### 3.2.3.1 Significance

For at least three reasons, we can expect numerous, non-significant, baseline exceedances of inorganic species during post-baseline sampling events because: 1) inorganic species are naturally occurring; 2) experience shows that inorganic concentrations at a given sampling location vary over time; and 3) total metals analyses are conducted on unfiltered water samples, thus particulates introduce random variability, related to the sample turbidity. Simply stated, it is more likely than not that there will be an exceedance of an inorganic species at some time in the future at each monitoring well.

This report evaluates the significance of the current results by the total number of species that exceed the baseline in a given well during a sampling event, the recurrence of an exceedance from one sampling event to the next, and the magnitude of an individual exceedance. Restated:

Recurrence (R): An exceedance is considered potentially significant if it reoccurs

consistently over several monitoring events.

Frequency (F): The inorganic results of a given well are considered potentially

significant if more than 25 percent of the analyzed compounds in a

sample exceed their baseline concentrations.

Magnitude (M): An exceedance is considered potentially significant if the current

result is at least twice the concentration of the baseline maximum for

the given specie at the given well.

During the June 1999 sampling event, 15 wells met the definitions of potential statistical significance. They include upper aquifer wells MW06, MW11, MW13, MW14, MW15, MW39, MW42, MW43, MW45, MW46, and MW49, and lower aquifer wells MW29,

MW30, MW50, and MW54R. The following summarizes the occurrences at each of these wells. See Table 10 for additional details.

<u>Upper Aquifer Monitoring Wells:</u>

MW06 R: Ca and Mg exceeded in June 1998 and June 1999.

F: N/A

M: Cd exceedance greater than twice the baseline maximum.

MW11 R: N/A

F: N/A

M: As exceedance greater than twice the baseline maximum.

MW13 R: Mg exceeded in June 1998 and June 1999.

F: N/A

M: N/A

MW14 R: Cr and Ni exceeded in June 1998 and June 1999.

F: there are 10 baseline exceedances

M: As, Cr, Co, Fe, Ni, Se, Tl, V exceedances greater than twice the baseline maximum.

MW15 R: Co exceeded in June 1998 and June 1999.

F: N/A

M: N/A

MW39 R: Na exceeded in June 1998 and June 1999.

F: N/A

M: N/A

MW42 R: N/A

F: N/A

M: Sb exceedance greater than twice the baseline maximum.

MW43 R: N/A

F: N/A

M: Cyanide exceedance greater than twice the baseline maximum.

MW45 R: Fe exceeded in June 1998 and June 1999.

F: N/A

M: Cr exceedance greater than twice the baseline maximum.

MW46 R: Fe and Mn exceeded in June 1998 and June 1999.

F: N/A

M: N/A

#### Lower Aquifer Monitoring Wells

MW29 R: N/A

F: N/A

M: Sb exceedance greater than twice the baseline maximum.

MW30 R: Ba exceeded in June 1998 and June 1999.

F: N/A M: *N/A* 

MW50 R: N/A

F: N/A

M: Hg exceedance greater than twice the baseline maximum.

MW54R R: Na exceeded in June 1998 and June 1999.

F: N/A M: N/A

#### 3.2.3.2 Relevance to Monitoring Objectives

The December 1997 groundwater report indicated 9 wells showed potential statistical significance: M-1S, M-4S, MW11, MW13, MW15, MW23, MW42, MW44, and MW47. Results from June 1999 sampling event show that 15 wells showed potential statistical significance: MW06, MW11, MW13, MW14, MW15, MW29, MW30, MW39, MW42, MW43, MW45, MW46, MW50, and MW54R. Between the two events, only wells MW11, MW13, and MW15 were repeated. In June 1998, MW11, MW13, and MW15 did not show potentially statistical significance. Therefore, this demonstrates that the baseline inorganic exceedances are most likely random occurrences and are unrelated to the site contamination effects.

#### 3.3 NATURAL ATTENUATION SAMPLES

A two-phase field investigation is being conducted to collect data for a monitored natural attenuation study. The results of the field investigation will be evaluated for the following:

- 1. Temporal and spatial trends of contaminant degradation;
- 2. Temporal and spatial trends in daughter product and metabolic by-product concentrations;
- 3. The distribution and availability of electron acceptors such as oxygen, nitrate, and sulfate necessary for degradation to occur; and
- 4. Other factors such as the physical and chemical composition of the subsurface that may limit degradation.

The baseline phase of the natural attenuation study consisted of analyzing data from both soil and groundwater samples collected at the ACS Site. Montgomery Watson collected eight soil samples on January 27, 1998 as part of the investigation. Soil samples were collected from three locations in each plume from the middle of the upper aquifer:

downgradient of the plume, within the plume, and at the edge of the plume. The soil samples were analyzed for TOC, nitrite, nitrate, pH, sulfate, TKN, ammonia-nitrogen, ortho-phosphate, soil moisture holding capacity, percent air-filled pore space, comparative enumeration assays for aerobic total heterotrophs, aerobic hydrocarbon degraders, and acridine orange direct counts.

Groundwater wells located upgradient of each plume, within each plume, at the edge of each plume, and downgradient of the plume for each of the plumes have been sampled for evaluation of natural attenuation parameters (TOC, biochemical oxygen demand (BOD), nitrate-nitrogen, nitrite-nitrogen, sulfate, TKN, ammonia-nitrogen, and ortho-phosphate) beginning in June 1997. Eight quarters of biological groundwater data have been collected. Results of the biological analytical parameters for the June 1999 sampling event are summarized in Table 11. Field parameters are summarized in Table 4. A separate analysis and preliminary report for this data will be prepared and submitted under a separate cover following completion of the two-year quarterly sampling sequence.

#### 4.0 SUMMARY AND CONCLUSIONS

#### 4.1 SUMMARY OF GROUNDWATER FLOW SYSTEMS

The groundwater flow systems for both the upper and lower aquifers are consistent with previous quarterly monitoring events. Groundwater flow within the upper aquifer, in general, is from the east and is diverted by the barrier wall toward the north/northwest and south/southwest, around the ACS Site. Vertical gradients within the upper aquifer below the wetlands are upwards. Consistent with historical data, the groundwater flow within the lower aquifer is essentially northward. Vertical gradients measured within the lower aquifer were either low or variable. Vertical gradients between the upper and lower aquifers were downward as in the past. There were no significant changes or variations from the baseline groundwater flow system.

#### 4.2 SUMMARY OF MONITORING WELL SAMPLE DATA

Indicator VOCs were detected in thirty-eight monitoring well samples collected from both the upper and lower aquifers. VOCs exceeded baseline concentrations in upper aquifer wells M4S, MW6, MW19. VOCs exceeded baseline concentrations in lower aquifer wells MW10C and MW53.

SVOCs were detected in twenty-two upper and lower aquifer wells. SVOCs exceeded baseline concentrations in upper aquifer wells M4S, MW19, and MW38. There were no baseline exceedances in the lower aquifer wells.

Pesticides and PCBs were detected in twenty-nine upper and lower aquifer samples. One pesticide, beta-BHC, exceeded the baseline concentration at MW06. There were no baseline exceedances in the lower aquifer wells.

Samples from fifteen monitoring wells showed potentially significant inorganic analytes: MW06, MW11, MW13, MW14, MW15, MW29, MW30, MW39, MW42, MW43, MW45, MW46, MW49, MW50, and MW54R.

Several TICS were detected in upper aquifer monitoring wells. Benzene-related compounds were detected in MW40 and MW45. Ether was tentatively identified in five upper aquifer monitoring wells, while tetrahydrofuran and 3,3,5-trimethylcyclohexane were tentatively identified in two upper aquifer wells. Ether, 1,4-dioxane, and tetrahydofuran were tentatively identified in seven lower aquifer wells. Several unknown SVOCs TICs were identified in several upper and lower aquifer wells.

The groundwater sample from lower aquifer well MW10C indicated a major increase in benzene and chloroethane concentrations. However, during the September 1999 sampling results showed that concentrations were near typical historical concentrations.

#### 4.3 NATURAL ATTENUATION

Additional field and groundwater parameters were recorded and analyzed for the eight upper aquifer monitoring wells included in the natural attenuation study during the June 1999 sampling event. These results will be compiled with the other natural attenuation parameters and evaluated in a separate report

#### 4.4 CONCLUSIONS

The following conclusions can be drawn for each objective of the Groundwater Monitoring Plan.

Objective 1 was to collect water level data to monitor groundwater flow in the upper and lower aquifers and to calculate the hydraulic gradients between the aquifers. The data collected indicates that groundwater flow directions and groundwater gradients for the June 1999 sampling event are consistent with past conditions for both the upper and lower aquifers.

Objective 2 was to collect water level data to document the performance of the PGCS and BWES and to evaluate changes in the groundwater flow system resulting from the remedial actions. The data indicate the barrier wall is containing the groundwater enclosed within the wall. In general, groundwater is from the east and is diverted toward the north/northwest and south/southeast. The groundwater is also diverted north/northwest around the north end of the barrier wall and is collected in the PGCS extraction trench or discharged to the drainage ditch (just beyond MW48). Groundwater diverted south flows toward the south/southeast. These observations are consistent with previous observations.

Objective 3 was to collect and analyze groundwater samples from upgradient monitoring wells in the upper and lower aquifers to document background groundwater quality. There were no detections in upgradient well MW12 and only low detections of a acetone and methylene chloride in MW18. Lower aquifer upgradient well MW50 only had low detections of acetone and methylene chloride. These detections are probably laboratory artifacts.

Objective 4 was to collect and analyze groundwater samples from downgradient monitoring wells in the upper and lower aquifers to assess the nature of the plume boundary. Sample analytical results indicate one exceedence of bis(2-ethylhexyl)phthalate at MW38, a downgradient well in the North Area. Response action to this baseline exceedance will be to wait until the next semi-annual sampling event to assess whether or not the baseline exceedance is part of a trend. Analytical results for the other samples

collected from the downgradient wells at the Site boundary in the upper and lower aquifer indicate that contaminant concentrations are below baseline values.

Objective 5 was to collect and analyze groundwater samples from the interior of the areas of contaminated groundwater to document how concentrations change with time and in response to the remedial actions. Analytical results for samples collected from the upper and lower aquifer wells indicate exceedances of baseline concentrations for organic compounds within the interior of the South Area and in the Landfill Area. SVOC and PCB exceedances were also found in the interior of these areas. Response action to the baseline exceedances will be to wait until the next semi-annual sampling event to assess whether or not the baseline exceedances are part of a trend. Inorganic baseline exceedances are attributed to statistical scatter and are not considered at this time since no trends have been seen related to site activities.

Objective 6 was to assess progress toward attaining cleanup objectives in the contaminated areas. Concentrations of benzene and chloroethane at monitoring well MW13 in the North Area have decreased to below detected limits, and have not been detected in the past two sampling events. Concentrations of benzene and chloroethane in MW48 and MW49 have generally decreased over the past several monitoring events, and may be related to ORC<sup>©</sup> injection and fluctuation in groundwater flow in that area. Concentrations of benzene and chloroethane at monitoring well MW45 in the South Area have shown decreasing trends over the past several monitoring events. Concentrations in MW06 have shown some variability, most likely due to changes in flow pattern resulting from installation of the barrier wall. Progress toward attaining cleanup objectives in contaminated areas continues to be evaluated.

CAS/cas/PJV/raa J:\1252\042\Une 99 sampling rpt\125204222a97.doc 1252042.221601 · •

# Table 1 Groundwater Level Gauging Points American Chemical Service NPL Site - June 1999 Griffith, Indiana

**Lower Aquifer Wells and Piezometers** 

Well	Ref	erence l	Points	Date:		
Designation	East	North	TOIC	level	Elevation	Notes
MW28	5657	5696	648.77	24.82	623.95	
PZ42	5662	5696	648.44	24.50	623.94	
PZ43	5662	5702	648.69	24.68	624.01	
MW50	5269	5383	649.43	25.55	623.88	
PZ44	6170	6766	638.47	15.12	623.35	
MW7	6113	6732	641.46	18.10	623.36	
MW10C	5229	7554	637.45	14.26	623.19	
MW9R	4893	6990	639.05	15.80	623.25	
MW29	4886	7012	638.06	14.64	623.42	
MW34	4880	7002	638.14	14.71	623.43	
MW23	4717	7404	633.31	10.05	623.26	
MW24	4596	8033	635.22	12.57	622.65	
MW52	4996	7814	632.74	9.78	622.96	
MW53	4977	7833	632.87	9.95	622.92	
MW51	5198	7767	634.16	11.28	622.88	
MW30	5194	7774	634.25	11.39	622.86	
MW33	5189	7774	634.13	11.38	622.75	
MW54R	5590	7592	637.51	14.32	623.19	
MW55	5595	7604	636.63	13.83	622.80	
MW8	5934	7506	640.43	17.36	623.07	
MW31	5907	7505	641.64	18.58	623.06	
MW32	5902	7507	641.84	18.80	623.04	
M4D	4949	6538	633.32	9.89	623.43	
ATMW4D	5297	7311	637.99	14.77	623.22	

Table 1
Groundwater Level Gauging Points
American Chemical Service NPL Site - June 1999
Griffith, Indiana

**Upper Aquifer Wells** 

Well		rence P	oints	Date:		
Designation	East			level	Elevation	Notes
MW6	5298	5520	655.28	21.44	633.84	
MW11	6377	7329	640.47	5.76	634.71	
MW12	6019	6352	642.74	7.50	635.24	
MW13	5050	7814	634.08	3.68	630.40	
MW14	4882	6995	638.56	8.46	630.10	
MW15	4721	5003	637.89	4.56	633.33	
MW18	5836	5746	644.89	8.98	635.91	
MW19	5231	4943	635.78	2.82	632.96	
MW37	5395	7976	636.78	4.97	631.81	
MW38	5903	8216	636.51	4.66	631.85	
MW39	6253	7947	637.77	4.68	633.09	
MW40	6349	6831	639.46	4.25	635.21	
MW41	6242	4517	632.74	5.16	627.58	
MW42	6264	3808	632.32	4.74	627.58	
MW43	5880	3719	633.56	5.33	628.23	
MW44	5390	4303	633.04	3.16	629.88	
MW45	5830	4388	635.35	5.93	629.42	
MW46	4526	7424	633.32	2.86	630.46	
MW47	5958	5084	640.54	6.07	634.47	·
MW48	5669	7814	636.36	4.72	631.64	
MW49	5551	7650	637.00	5.34	631.66	
M1S	4362	5743	639.09	5.13	633.96	Griffith Landfilll Wells
M4S	4953	6537	633.42	3.84	629.58	Griffith Landfilll Wells

**Staff Gauges** 

Well	Reference Points		oints	Date:		
<b>Designation</b>	East	North	TOSG	level	Elevation	Notes
SG2	4423	6864	622.84	1.67	621.17	
SG7	5403	6889	637.01	1.05	635.96	
SG8R	5409	5252	634.70	1.07	633.63	
SG1	5023	6196	633.50	NM	NM	Ditch in which SG1 located has filled with sediment
SG3	4180	7123	631.17	1.49	629.68	
SG5	5464	7713	633.36	2.86	630.50	
SG6	4495	8075	632.97	2.35	630.62	
SG11	5859	8245	634.62	2.61	632.01	
SG12	5596	7867	634.12	3.00	631.12	

# Table 1 Groundwater Level Gauging Points American Chemical Service NPL Site - June 1999 Griffith, Indiana

#### **Piezometers**

Well	Refe	rence P	oints	Date:		
Designation		North	TOC	level	Elevation	Notes
ĽWI	4807	5070	644.57	11.15	633.42	
LW2	4662	5465	649.70	16.11	633.59	
P3	5453	6470	639.87	4.47	635.40	
P4	5432	6228	639.25	NM	NM	Destroyed
P5	5285	6510	636.70	2.42	634.28	1.
P6	5150	6551	638.75	NM	NM	Destroyed
P7	5950	6630	643.63	8.31	635.32	
P8	6156	6734	639.27	4.06	635.21	
P9	6134	6994	638.88	3.96	634.92	
P10	5413	5852	649.32	14.39	634.93	
PII	5199	5900	649.14	14.25	634.89	
P12	5076	5723	650.08	NM	NM	Destroyed
P13	4878	5735	651.20	17.34	633.86	
P15	5003	6187	639.93	7.84	632.09	
P16	4673	5749	648.80	14.38	634.42	
P17	4584	6006	654.64	20.99	633.65	Inside Griffith Landfill
P18	4623	6224	649.84	5.23	644.61	Inside Griffith Landfill
P22	4636	6732	634.30	6.86	627.44	
P23	4689	7018	636.18	6.54	629.64	
P24	5002	7178	636.06	5.39	630.67	
P25	5131	7510	635.01	5.14	629.87	
P26	4764	7309	634.23	4.12	630.11	
P27	4904	7020	639.70	9.24	630.46	
P28	5883	7486	644.53	10.39	634.14	
P29	5738	6619	642.37	6.75	635.62	
P30	5626	6793	642.42	NM	NM	Destroyed
P31	5480	7159	641.03 642.32	4.05 6.80	636.98 635.52	
P32 P35	5746 5515	7026 6572	641.44	NM	NM	Dostroyed
P36	5410	6851	645.89	9.83	636.06	Destroyed
P37	5330	6949	641.37	NM	NM	Destroyed
P38	5149	6992	639.87	NM	NM	Destroyed
P39	5940	6902	642.00	6.35	635.65	Dosacyca
P40	5931	7241	638.77	4.10	634.67	
P41	5663	7377	637.23	3.53	633.70	
P49	5145	6949	638.98	3.83	635.15	
P50	5129	6964	639.59	NM	NM	Destroyed
P51	3876	6859	635.07	5.34	629.73	
P52	4100	7845	636.66	6.39	630.27	
P53	4597	8015	636.18	5.60	630.58	
P54	4936	8081	638.28	6.55	631.73	
P55	5628	7979	636.08	5.11	630.97	
P56	6405	7665	639.46	5.03	634.43	
P59	6389	6590	639.22	3.91	635.31	
P60	6111	6051	640.23	4.97	635.26	
P61	-5533	5284	638.58	5.26	633.32	
P62	5665	4945	637.06	4.84	632.22	
P63	5483	7689	637.70	6.64	631.06	
EW1	5113	6942	639.50	NM	NM	Destroyed
P64	4617	7065	634.87	5.42	629.45	
P65	4615	7063	634.77	5.25	629.52	
P66	4729	7034	636.02	6.39	629.63	
P67	4732	7034	636.06	6.38	629.68	
P68	4743	7752	634.48	3.77	630.71	
P69	4741	7751	634.66	3.88	630.78	
P70	4880	7680	635.38	5.13	630.25	
P71	4876	7682	635.32	4.82	630.50	<u> </u>

# Table 1 Groundwater Level Gauging Points American Chemical Service NPL Site - June 1999 Griffith, Indiana

**New Piezometers - Upper Aquifer** 

Well Reference Point				Date:		
Designation	East	North	TOC	level	Elevation	Notes
PGCS Piezomete	r Sets	<u> </u>				
P81	5577	7581	636.19	4.80	631.39	
P82	5577	7572	635.77	4.64	631.13	·
P83	5577	7562	635.95	4.60	631.35	
P84	5322	7603	634.35	3.90	630.45	
P85	5326	7594	634.08	3.36	630.72	
P86	5329	7585	634.41	3.88	630.53	
P87	5121	7466	633.88	3.99	629.89	
P88	5130	7460	633.90	4.56	629.34	
P89	5137	7454	634.02	4.20	629.82	
P90	4881	7152	632.59	2.86	629.73	
P91	4889	7145	632.97	3.30	629.67	
P92	4896	7138	633.63	3.83	629.80	
BWES Piezomete	r Pairs					
P93	5136	7067	638.79	6.65	632.14	
P94	5146	7061	638.98	NM	NM	Destroyed
P95	5146	6532	638.58	7.39	631.19	
P96	5156	6537	638.39	6.28	632.11	
P97	5098	6283	638.39	6.68	631.71	
P98	5130	6279	639.35	6.98	632.37	
P99	5020	5945	644.35	10.70	633.65	
P100	5031	5948	643.93	9.09	634.84	
P101	5550	5979	650.08	15.32	634.76	
P102	5517	5996	647.18	11.80	635.38	
P103	5672	6248	644.97	10.30	634.67	
P104	5639	6267	646.68	11.11	635.57	
P105	5885	6678	638.86	NM	NM	Graded over by ACS Facility
P106	5871	6685	638.10	NM	NM	Graded over by ACS Facility
P107	5766	7339	637.42	3.61	633.81	
P108	5757	7324	638.13	3.00	635.13	
ORC Piezome	ters			level	Elevation	Notes
ORC PZ1	5685	7574	638.57	6.65	631.92	
ORC PZ2	5758	7457	643.43	9.81	633.62	
ORC PZ3	5760	7540	640.24	7.08	633.16	
ORC PZ4 ORC PZ5	5827 5741	7502 7753	643.79 636.21	9.92	633.87 631.87	· · · · · · · · · · · · · · · · · · ·
ORC PZ6	5759	7792	636.13	4.15	631.98	
ORC PZ7	5792	7839	635.85	3.95	631.90	
ORC PZ8	5813	7763	638.16	5.96	632.20	

All depth measurements and elevations are in units of feet.

# Table 2 Upper Aquifer Wells Sampled - June 1999 American Chemical Service Superfund Site Griffith, Indiana

	Area of Groundwater Contamination	Well Identification	Location with Respect to Area of Groundwater Contamination	Monitoring Parameters June 1999
1	North	MW11	Side Gradient	IND
2	·	MW12	Side Gradient	IND
3		MW40	Side Gradient	IND/BIO
4		MW48	Internal	TCL/TAL/BIO
- 5		MW49	Internal	TCL/TAL
6		MW39	Side Gradient	TCL/TAL/BIO
7		MW37	Downgradient	TCL/TAL
8		MW38	Side Gradient	TCL/TAL/BIO
9	West	MW14	Internal	TCL/TAL
10		MW13	Internal	TCL/TAL
11		MW46	Side Gradient	TCL/TAL
12		M-1S	Griffith Landfill	IND
13		M-4S	Griffith Landfill	TCL/TAL
14	South	MW18	Upgradient	TCL/TAL/BIO
15		MW6	Internal	TCL/TAL
16		MW19	Internal	TCL/TAL/BIO
17	•	MW45	Internal	TCL/TAL/BIO
18		MW41	Side Gradient	TCL/TAL/BIO
19	i	MW44	Side Gradient	TCL/TAL
20	·	MW47	Side Gradient	TCL/TAL
21	:	MW15	Side Gradient	TCL/TAL
22		MW42	Downgradient	TCL/TAL
23		MW43	Downgradient	TCL/TAL

#### Notes:

IND: Arsenic, lead, VC, benzene, chloroethane, TCE, PCE, TCA, DCE, and 1,2-DCA.

TCL/TAL: Full scan Target Compound List and Target Analyte List Parameters

**BIO**: Sulfate, orthophosphate, total organic carbon (TOC), nitrate, nitrite, total kjeldahl nitrogen (TKN), ammonia, and biochemical oxygen demand (BOD).

# Table 3 Lower Aquifer Wells Sampled - June 1999 American Chemical Service Superfund Site Griffith, Indiana

	Well Identification	Well Screen Depth in Lower Aquifer	Location with Respect to Area of GW Contamination	Monitoring Parameters June 1999
1	MW28	Upper	Upgradient	TCL/TAL
2	MW50	Upper	Upgradient	TCL/TAL
. 3	MW7	Upper	Side Gradient	IND
4	MW10C	Upper	Internal	TCL/TAL
5	MW9R	Upper	Internal	TCL/TAL
6	MW29	Middle .	Internal	TCL/TAL
7	MW34	Lower	Internal	IND
8	MW23	Upper	Downgradient	TCL/TAL
9	MW24	Upper	Downgradient	TCL/TAL
10	MW52	Upper	Downgradient	TCL/TAL
11	MW53	Lower	Downgradient	TCL/TAL
12	MW51	Upper	Downgradient	TCL/TAL
13	MW30	Middle	Downgradient	TCL/TAL
14	MW33	Lower	Downgradient	TCL/TAL
15	MW54R	Upper	Downgradient	TCL/TAL
16	MW55	Lower	Downgradient	TCL/TAL
17	MW8	Upper	Downgradient	TCL/TAL
- 18	MW31	Middle	Downgradient	TCL/TAL
19	MW32	Lower	Downgradient	TCL/TAL
20	M-4D	Upper	Griffith Landfill	IND
21	ATMW-4D	Upper	ACS Site	TCL/TAL

#### Notes:

IND: Arsenic, lead, VC, benzene, chloroethane, TCE, PCE, TCA, DCE, and 1,2-DCA.

TCL/TAL: Full scan Target Compound List and Target Analyte List Parameters

Table 4
Summary of Field Parameter Results - June 1999
American Chemical Service Superfund Site
Griffith, Indiana

<del></del>	Field Parameters										
Well	рН	Conductivity (adjusted to 25° C)	Temperature	Turbidity	Dissolved Oxygen	Oxidation- Reduction Potential					
ID	(std. units)	(uS/cm)	(°C)	(NTU)	(mg/L)	(mV)					
M1S	6.76	2346	16.2	8.7	0.23	-613					
M4S	6.52	2834	15.1	5.2	0.16	-590					
M4D	7.51	1333	16.4	10.0	0.45	-535					
MW06	6.5	2698	17.7	15.3	0.96	174					
MW07	7.72	693.8	13.6	5.3	0.82	64					
MW08	7.71	423	13.9	5.1	0.55	61					
MW09R	7.36	891.8	15.1	41.8	0.45	80					
MW10C	7.21	1658	12.9	30.1	0.47	106					
MW11	6.24	242.2	15.5	157.9	0.82	278					
MW12	6.85	381	16.6	44.9	0.36	-589					
MW13	7.03	1170	12.6	4.8	0.20	110					
MW14	6.73	386.4	17.0	474.5	0.28	249					
MW15	7.3	4215	17.4	16.1	0.21	-611					
MW18	7.19	666.7	14.0	0.0	2.11	-429					
MW19	7.5	5705	20.1	21.5	0.06	-527					
MW23	7.21	779	15.2	71.3	0.14	88					
MW24	7.16	1114	14.2	37	0.89	138					
MW28	7.62	710	17.5	0.0	0.62	-445					
MW29	7.31	1129	13.8	26.4	0.96	115					
MW30	7.43	956	15.8	32.7	0.54	99					
MW31	7.42	696	14.7	44.7	0.37	77					
MW32	7.41	799	13.0	2.9	1.30	88					
MW33	6.71	2737	15.0	8.9	0.42	102					
MW34	7.45	898.1	13.6	15.5	0.16	252					
MW37	7.07	576.8	14.7	38.2	1.34	395					
MW38	6.65	456	14.9	24.2	0.77	219					
MW39	6.97	1468	16.3	4.6	1.30	139					
MW40	6.34	191	13.6	18.3	1.25	210					
MW41	6.72	344	20.4	8.2	3.51	298					
MW42	7	877	14.3	5.9	0.56	199					
MW43	6.68	935.2	18.3	34	0.91	159					
MW44	7.68	815	14.3	1.9	1.30	206					
MW45	7.01	1122	22.1	8.7	1.90	107					
MW46	6.72	1337	14.7	2.6	0.30	103					
MW47	5.41	96.5	21.2	4.9	2.31	390					
MW48	6.9	711 -	19.8	35.4	1.60	. 95					
MW49	6.87	692	13.6	14.2	0.03	111					
MW50	7.48	2619	16.4	294.0	0.16	-503					
MW51	6.89	1561	16.8	33.2	0.32	87					
MW52	7.17	1474	13.4	27.0	1.54	124					
MW53	6.74	3857	12.5	7.5	0.22	121					
MW54R	7.46	1227	14.7	· 10.0	0.00	28					
MW55	7.46	856	13.4	21.2	0.23	105					
ATMW4D	7.46	976	21.0	46.0	1.04	-531					

Notes:

NTU = nephelometric turbidity units

Table 5
Vertical Gradients in Wetlands - June 1999
American Chemical Service Superfund Site
Griffith, Indiana

Piezometer	Screen Interval		Screen	Separation	Grou	ndwater Elev	ation	Hydraulic
Nest	Тор	Bottom	Midpoint	(feet)	Upper	Lower	delta	Gradient
P64	629.05	624.10	626.58	5	629.45			
P65	622.20	620.20	621.20			629.52	0.07	0.014
P66	629.45	625.10	627.28	8	629.63			
P67	620.50	618.50	619.50		_	629.68	0.05	0.006
P68	628.15	623.80	625.98	6	630.71			
P69	621.10	618.60	619.85			630.78	0.07	0.012
P70	628.55	624.20	626.38	6	630.25			
P71	621.00	619.00	620.00			630.50	0.25	0.042

#### Notes:

Water level measurements collected on June 7, 1999.

- (-) = Downward Gradient
- (+) = Upward Gradient

See September 1997 Groundwater Sampling Results Report and Groundwater Monitoring Plan (July 1998), p. 3, for an explanation of calculation method.

Table 6
Vertical Gradients in Lower Aquifer - June 1999
American Chemical Service, Inc. NPL Site
Griffith, Indiana

Well	Screen	Interval	Separation	Lowest	(	Groundwate	er Elevation	1	•	Vertical Grad	dients
1				Measurable					Upper/	Middle/	
Nest	Top	Bottom	(feet)	Gradient	Upper	Middle	Lower	delta	Middle	Lower	Upper/ Lower
MW7	595.9	590.9			623.36						
PZ44	578.4	573.4	13	0.0008		623.35		-0.01	WU	NA	NA
MW8	598.2	593.2			623.07	ļ			,		
MW31	574.6	564.6	19	0.0005		623.06		-0.01	WU		
MW32	547.3	537.3	17	0.0006			623.04	-0.02		-0.0012	-0.0007
MW9R	605.9	600.9			623.25						
MW29	585.9	575.9	15	0.0007		623.42		0.17	0.0113		
MW34	552.8	542.8	23	0.0004			623.43	0.01		WU	0.0037
MW30	585.0	575.0	13	0.0008	NA	622.86			NA		
MW33	556.0	546.0	19	0.0005			622.75	-0.11		-0.0058	NA
MW28	588.7	578.7		•	623.95						
PZ42	568.5	563.5	10	0.0010		623.94		-0.01	WU		
PZ43	554.5	549.5	9	0.0011	<u> </u>		624.01	0.07	,	0.0078	0.0025
MW52	615.6	605.6		1	622.96						
MW53	555.7	545.7	50	0.0002	<u> </u>	NA	622.92	-0.04	NA	NA	-0.0008
MW54R	608.1	598.1			623.19						
MW55	547.6.	537.6	51	0.0002		NA	622.80	-0.39	NA	NA	-0.0077

#### Notes:

Water levels collected by Montgomery Watson on June 7, 1999.

NA = Not Applicable. Calculating vertical gradient only for upper/lower interval at this location.

WU = Within uncertainty of measurement technique.

- (-) = Downward Gradient
- (+) = Upward Gradient

See September 1997 Groundwater Sampling Results Report and Groundwater Monitoring Plan (July 1998), p. 4, for an explanation of calculation method.

# Table 7 Vertical Gradients Between Upper and Lower Aquifers June 1, 1999

# American Chemical Service Superfund Site Griffith, Indiana

Well	Screen	Interval	Screen	Separation	Grou	ndwater Elev	ation	Hydraulic
Designation	Top	Bottom	Midpoint	(feet)	Upper	Lower	delta	Gradient
P28	634.30	629.30	631.80	11	634.14			
MW8	598.20	593.20	595.70			623.07	-11.07	-1.01
P27	631.02	626.02	628.52	23	630.46		-	
MW9R	605.90	600.90	603.40			623.25	-7.21	0.32
. P8	635.36	630.36	632.86	18	635.21			
MW7	595.90	590.90	593.40			623.36	-12	-0.66

#### Notes:

Water levels collected on June 7, 1999.

(-) = Downward Gradient

(+) = Upward Gradient

See September 1997 Groundwater Sampling Results Report and Groundwater Monitoring Plan (July 1998), p. 4, for an explanation of calculation method.

# Table 8 Summary of Organic Compound Detections in the Upper Aquifer Validated Results June 1999 American Chemical Service Superfund Site

	MIS	M4	·S	MW	/6	MW-11	MW12	MV	/-13	MW	V14
Parameter	<u> </u>	<u> </u>					<u> </u>				
VOCs (ug/L)											
Acetone		26	JB/JB	80	/JB_			5	JB/JB	11	/JB
2-Hexanone											
2-Butanone		T i		2	J/J_						
4-Methyl-2-pentanone							<u></u>				
Chlorobenzene											
Vinyl Chloride											
Chloroethane	1	1600		78			_				
1,2-Dichloroethene (total)				1.0	J/J						
Methylene chloride		19	J/J	140.0				10	/JB	3	J/JB
Benzene	2 J/	.180		180							
Ethylbenzene											
Toluene				1	J/J						
Xylenes		1									
SVOCs											
2,2'-oxybis(1-Chloropropane)	NA	T				NA	NA	1			
1,2-Dichlorobenzene	NA					NA	NA				
1,4-Dichlorobenzene	NA	<del> </del>				NA	NA				
2-Methylnaphthalene	NA					NA	NA				
Bis(2-ethylhexyl)phthalate	NA					NA	NA	1		- ·	
Bis(2-chloroethyl)ether	NA	72		13		NA	NA		<u> </u>		
Naphthalene	NA	<del>-</del>				NA	NA	<u> </u>			
2,4-Dimethylphenol	NA	-				NA	NA				
Isophorone	NA NA			3	J/J	NA	NA	<b>-</b>			
Phenol	NA					NA	NA				
PCBs/Pesticides	1 13/3					11/1					
4,4'-DDE	NA	1		0.0012	ID/ID	NA	NA NA	Ι			
4,4'-DDE 4,4'-DDT	NA NA	-		0.0012	J/ J/	NA	NA NA				
alpha-Chlordane	NA NA	<del> </del>	_	0.0068		NA NA	NA NA				
alpha-BHC	NA NA	0.0083	JP/JP	0.0008	JP/JP	NA	NA NA				
beta-BHC	NA NA	0.0063	JBP/JBP	0.0093	BP/P		NA NA	0.0055	JBP/JP		
		0.0012	JP/JP	0.004	JP/JP		NA NA	0.005.	,	ļ	
delta-BHC	NA NA		J <i>P/</i> J <i>P</i>	0.004		NA NA	NA NA				
gamma-BHC		0.011	3/3	0.0000	JP/JP	NA NA	NA NA			ļ	
Aldrin	NA	<del> </del>		0.0000	10/10		NA NA	- <del> </del> -			
Dieldrin	NA .			0.0069	JP/JP	NA				<u> </u>	
Endosulfan sulfate	NA	<del> </del>		0.001		NA	NA		<del></del> -		
Endrin	NA	<del> </del>		0.021	JP/JP	NA	NA	<del> </del>	IDD/ID	<b> </b> -	
Endrin ketone	NA .	ļ	·	<b> </b>	·	NA ·	NA.	0.0042	JBP/JP	<b>-</b>	<u>·</u>
Endosulfan II	NA	<u> </u>		ļ <u>.</u>		NA-	NA				
gamma-Chlordane	NA	· ·		ļ		NA	NA			<b>-</b>	
Heptachlor	NA	-		0.0043	JP/JP	NA	NA			0.0022	JP/JP
Heptachlor epoxide	NA	<u> </u>				NA -	NA	_		ļ	
Methoxychlor	NA	<u> </u>		<u> </u>		NA	NA	_		<b> </b> _	
	<u> </u>	<u> </u>					<u> </u>				

#### Notes

NA = Not analyzed for this parameter

\_/\_ = No data qualifier required

J/\_ = Data qualifier added by laboratory

\_/J = Data qualifier added by data validator

Data qualifers are defined in Appendix C.

A blank cell indicates the parameter was

not detected.

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# Table 8 Summary of Organic Compound Detections in the Upper Aquifer Validated Results June 1999

#### American Chemical Service Superfund Site

	MW	15	MW	V18	MW	/19	MW-	-37	MW-	-38	MV	V-39	MW	-40
Parameter										1				
VOCs (ug/L)													<del></del>	
Acetone	4	J/J	5	JB/J	19	B/JB	5	J/J	5	JB/J	4 .	JB/J		
2-Hexanone					3	JB/JB								
2-Butanone					2	JB/JB								
4-Methyl-2-pentanone					3	JB/JB								
Chlorobenzene														
Vinyl Chloride														
Chloroethane					14	/J								
1,2-Dichloroethene (total)											2_	J/		
Methylene chloride	5	J/J	4	J/J	3	J/J	4	J/J	7	]/J	7_	<u>J/J</u>	8	NJ/
Benzene	3	J/J			7_	J/J					2_	. J/		
Ethylbenzene									_ ·	1	1_	J/		
Toluene										I				
Xylenes									· .		1	J/		
SVOCs														
2,2'-oxybis(1-Chloropropane)		·			4	J/J							NA	
1,2-Dichlorobenzene						-:-							NA	
1,4-Dichlorobenzene													NA	
2-Methylnaphthalene								•					NA	
Bis(2-ethylhexyl)phthalate					1	J/J			11				NA	
Bis(2-chloroethyl)ether					23	/J							NA	
Naphthalene													NA	
2,4-Dimethylphenol								-					NA	
Isophorone													NA	
Phenol													NA	
PCBs/Pesticides														
4,4'-DDE	_								0.0086	JP/JP			NA	
4.4'-DDT									0.068	JP/JP			NA	
alpha-Chlordane					0.0053	IP/IP							NA	
alpha-BHC					0.0038								NA	<del></del>
beta-BHC	0.0081	JBP/JBP			0.022	JBP/JP	0.019	J/J					NA	
delta-BHC	0.0016				0.0019		0.0.7	3,3	0.0056	JP/JP			NA	
gamma-BHC	0.0010	JP/JP			3.0017	31,31			3.0030	3,13,			NA	
Aldrin	0.0033	JP/JP							<del> </del>				NA NA	
Dieldrin	0.0021	JI/JE							0.0074	JP/JP			NA NA	<del></del>
Endosulfan sulfate		-			-				0.0074	JP/JP			NA NA	
Endosulian sulfate Endrin	<del></del>								0.0068	JP/JP			NA NA	
				· <del>-</del>					0.0064	JP/JP JBP/JP			NA NA	
Endrin ketone		<u>·</u>			0.0010	ID/ID			0.0004	JEFIJE				<del></del>
Endosulfan II					0:0019	15/15			0.0002	1/1			NA_	<del> </del>
gamma-Chlordane	0.007:	ID (ID			0.0041	IDUD		·	0.0083	J/J			NA	
Heptachlor	0.0074	JP/JP			0.0044	14/14			0.0083	JP/JP		<del>-</del>	NA.	
Heptachlor epoxide	_								<del> </del>				_NA_	
Methoxychlor			0.01	JP/JP	ļ				0.11	JB/J			_NA	
					<u> </u>				<u> </u>					

#### Notes

NA = Not analyzed for this parameter

\_/\_ = No data qualifier required

J/\_ = Data qualifier added by laboratory

\_/J = Data qualifier added by data validator

Data qualifers are defined in Appendix C.

A blank cell indicates the parameter was

not detected. JJN/JMK

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# Table 8 Summary of Organic Compound Detections in the Upper Aquifer Validated Results June 1999 American Chemical Service Superfund Site

	MW	-41	MV	W42	MW	-43	MW	-44	MW	45	M	W46
Parameter	!				[							
VOCs (ug/L)												
Acetone	_\		3	JB/J	4	3/3	6	JB/J				
2-Hexanone												
2-Butanone												
4-Methyl-2-pentanone												
Chlorobenzene									17	J/		
Vinyl Chloride									38	J/		
Chloroethane			]		<u> </u>							
1,2-Dichloroethene (total)												
Methylene chloride	2	J/J	3	J/J	2	J/J	2	J/J_			3	J/J
Benzene	_								360		<u> </u>	
Ethylbenzene			<u></u>									
Toluene			l									
Xylenes					l				16	J/		
SVOCs												
2,2'-oxybis(1-Chloropropane)			<u> </u>						7	J/J		
1,2-Dichlorobenzene			<u> </u>						4	J/J		
1,4-Dichlorobenzene									2	J/J		
2-Methylnaphthalene									0.5	J/J		
Bis(2-ethylhexyl)phthalate			2	J/J			6	J/J_				
Bis(2-chloroethyl)ether									4	J/J		
Naphthalene									11	/J		
2,4-Dimethylphenol												
Isophorone										_	_	
Phenol									31	/J		
PCBs/Pesticides			_									
4,4'-DDE												
4,4'-DDT												
alpha-Chlordane												
alpha-BHC									0.0032	JP/JP		
beta-BHC					0.0045	JB/JB			0.0078	JP/JP		
delta-BHC												
gamma-BHC								•				
Aldrin							0.0018	JP/JP				
Dieldrin				-								
Endosulfan sulfate												
Endrin												
Endrin ketone	1		:							· -	<del></del> -	
Endosulfan II		<del></del>									· ·	
gamma-Chlordane	_		<u> </u>				0.0011	JP/IP	-		<u>-</u>	
Heptachlor			l -							-		
Heptachlor epoxide	-		·				0.0011	JP/JP	<b>-</b>			
Methoxychlor			\ <del></del>				0.0011	31/31				
i-i-culoxychioi	<del></del>		-				<del></del>		-			

#### Notes:

NA = Not analyzed for this parameter

\_/\_ = No data qualifier required

J/\_ = Data qualifier added by laboratory

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Data qualifers are defined in Appendix C.

A blank cell indicates the parameter was

not detected.

1:/1252/042/June 99 Sampling rpt/ 125204222a51.xls

#### Table 8 Summary of Organic Compound Detections in the Upper Aquifer Validated Results June 1999 **American Chemical Service Superfund Site**

1_	M	W47	MV	/48	MW	/49
Parameter	l				<u> </u>	
VOCs (ug/L)					ı—	
Acetone						
2-Hexanone			57	JBP/J	<b></b>	
2-Butanone	_				ļ	
4-Methyl-2-pentanone						
Chlorobenzene			<del> </del>		ļ	
Vinyl Chloride	_				l	
Chloroethane	_		290	DJ/_	220	DJ/DJ
1,2-Dichloroethene (total)					<b> </b>	
Methylene chloride	2				ļ	
Benzene			5700	<u>D/_</u>	_2600_	D/JD
Ethylbenzene					ļ	
Toluene			-(			
Xylenes					L	
SVOCs	···					
2,2'-oxybis(1-Chloropropane)					9	J/J
1,2-Dichlorobenzene			<u> </u>			
1,4-Dichlorobenzene						
2-Methylnaphthalene			<u> </u>			
Bis(2-ethylhexyl)phthalate						
Bis(2-chloroethyl)ether			18			
Naphthalene					ļ	
2,4-Dimethylphenol			3	J/		
Isophorone					3	3/3
Phenol			87	D/_	71	
PCBs/Pesticides			_			
4,4'-DDE						
4,4'-DDT						
alpha-Chlordane						
alpha-BHC			0.011	JP/JP		
beta-BHC						
delta-BHC					0.0019	JP/JP
gamma-BHC						
Aldrin						
Dieldrin						
Endosulfan sulfate			<u> </u>			
Endrin		-	-[		i	
Endrin ketone			ļ. —		0.0044	JBP/JP
Endosulfan II			1		0.0077	
gamma-Chlordane	_ <del></del>		1			
Heptachlor			0.0010	JP/JP	0.0083	ID/ID
Heptachlor epoxide			1.0.0019	11/11	0.0003	JE /JP
Methoxychlor						
Memoxychiot			-			

#### Notes:

NA = Not analyzed for this parameter

\_/\_ = No data qualifier required

J/\_ = Data qualifier added by laboratory

\_/J = Data qualifier added by data validator

Data qualifers are defined in Appendix C.

A blank cell indicates the parameter was

not detected. JJN/JMK J/1252/042/June 99 Sampling rpt/ 125204222a51.xls

# Table 9 Summary of Organic Compound Detections in the Lower Aquifer Validated Results June 1999 American Chemical Service Superfund Site

<del></del>	,	M4D	ATMW4D	MW07	MW08	MW	09R	MW	10C	MW23	MW	/24	MW	28	MW	29	MW	/30
Parameter											_							
VOCs (ug/L)																		
2-Butanone															_			
4-Methyl-2-pentanone																		
Acetone			4 JB/J	<u> </u>		15	DJ/DJ	990	J/JB	7 3/3	4	JB/JB	4	JB/	2	]/J	3	3/3
Benzene						160	D/	2000										
Chloroethane						490	D/	2600										
Methylene Chloride			3 J/J	I	3 J/	J 12	DJ/JB	130	J/JB	4 J/JB	4	J/JB	8	J/J	2	J/J	4	J/J
Toluene					1													
Ethyl Benzene			·		·								2	3/				
Xylenes (total)					<u> </u>								2	_J/				
SVOCs (ug/L)																		
bis(2-Ethylhexyl)phthalate			1 3/3	NA				2	JB/JB	B			2	J/J	1	JB/JB	1	J/J
bis(2-Chloroethyl)Ether		NA		NA	<u> </u>	13												
PCBs/Pesticides																		
4,4'-DDD		NA		NA	<u> </u>													
alpha-Chiordane		NA		NA NA	<u> </u>	0.010	JP/JP			L			0.0025	JP/JP				
gamma-Chlordane		NA	l	NA											0.0018	JP/JP		
alpha-BHC		NA		NA														
beta-BHC		NA		NA				0.017	_ J/J		0.0096	JBP/JP						
delta-BHC		NA	l	NA		0.0053	JP/JP	0.0023	JP/JP		0.003	JP/JP			0.0045	JP/JP		
gamma-BHC		NA ·		NA				0.0012	JP/JP									
Endrine ketone		NA	I	NA			-								_			
Heptachlor		NA		NA						0.0022 JP/JP								
Methoxychlor		NA		NA													0.0066	JBP/

#### Notes

NA = Not analyzed for this parameter

\_/\_ = No data qualifier required

J/\_ = Data qualifier added by laboratory

J = Data qualifier added by data validator

Data qualifiers are defined in Appendix C

A blank cell indicates parameter not detected.

# Table 9 Summary of Organic Compound Detections in the Lower Aquifer Validated Results June 1999 American Chemical Service Superfund Site

	MW	31	MW3	2	MW.	33	MW34	MV	V50	MW5	5]	MW	52	MW	53	MWS	54R	MW	/55
Parameter				_										-					
VOCs (ug/L)																			
2-Butanone					1.	JB/				1				3	JB/JB		•		
4-Methyl-2-pentanone														3	JB/JB				
Acetone	2	JB/J	2	JB/J	8	JB/JB		2	JB/JB					30	B/JB	6	JB/J	3	JB/J
Benzene								]	·					4	]/J	ı	J/		
Chloroethane								i											
Methylene Chloride	. 2	J/J	2	3/J	9	J/J		3	J/	8	J/J			100	/J	3	]/J	3	J/J
Toluene															J/J				
Ethyl Benzene																			
Xylenes (total)								1											
SVOCs (ug/L)																			
his(2-Ethylhexyl)phthalate	2	1/1	22	]/]		J/J	NA					6	]/J	14		<u> </u>		2	J/J
bis(2-Chloroethyl)Ether							NA												
PCBs/Pesticides																			
4,4'-DDD					0.0024	JP/JP	. NA											·	
alpha-Chlordanc					0.0014	JP/JP	NA	<u> </u>										l	
gamma-Chlordane							NA												
alpha-BHC	l						_NA	<u>                                     </u>		0.0015	JP/JP								
beta-BHC	0.014	JP/JP			0.017	IBP/IBI	NA	0.009	JBP/JP							0.012	JBP/	0.016	JBP/JF
delta-BHC	0.0013	JBP/JP					NA	0.00098	JBP/JP			0.0025	<b>J/</b> J	0.0082	J/J	0.0018	JB/	0.0023	JBP/JF
gamma-BHC				[	0.0025	JP/JP	NA_	l											
Endrine ketone							NA	ļ				0.0038	JBP/JP	0.0069	JBP/JP				
Heptachlor					0.007	JP/JP	NA							0.0085	JP/JP				
Methoxychlor				7	0.0036	JBP/JP	NA	0.0063	JBP/JBP	l									

#### Notes

NA = Not analyzed for this parameter

\_/\_ = No data qualifier required

J/\_ = Data qualifier added by laboratory

/J = Data qualifier added by data validator

Data qualifiers are defined in Appendix C

A blank cell indicates parameter not detec

	Datastielle	Batan Haller			<del></del>		1		<del>,</del>		1		Τ												Γ		_		T			1		—	1						
	Potentially Statistically Significant	Potentially Statistically Significant		mony	Arse			rium		mlum		cium		ım (Total)		balt	Сорі		Cyanide (		Ire		Magn			ganese		ercury		ckel		ssium	Sele			dium	I .	dlium	Vanadiu		otal Number of
Well	Jun-98	Jun-99	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99 E	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99	Baseline	Jun-99 Ba	seline EX	CEEDANCES
UPPER A		ELLS						· ·																																	
M-1S	R,M											L	L																					<u> </u>			<u> </u>			L	0
M-4S	M		3.2							I			<u> </u>												l								3.1	2							3
MW06	M	R, M	3.2	2. <i>I</i>					2.1	1	260000	216000		<u> </u>									45700	37600									3.1	2					l		5
MW11		М			4.2	2							<u> </u>						t								J										<u> </u>				11
MW12			L .	L	L					ļ <u>.</u>	L	ļ						1											1					i							0
MW13		R	İ	· .	2.2	2	83.2	69	1.2	1											7620		48900	37000	813	674								:	1						6
MW14		F, M, R	2.9	2.3	67.2	11		<u>.</u>					185	36	24.7	12	33.8	32			98700	33000				-	L		128	29			6.6	2.3			10.9	3	98.2	34	10
MW15		R						L					<u> </u>		5.5	5.1															124000	122000	3.1	2	495000	459000			1.9	1.5	5
MW18			3.3	2									L		2.5	1.7																						1			2
MW19							764	673		l	l	<u> </u>	L							-					l	T		T					3.1	2							2 .
MW37							- 1																														1	1			0
MW38					L																								1							Ι.		T			0
MW39		R											1													T	1		T						154000	123000		1			1
MW40		ŀ									1		T																1	1					1	1		1			0
MW41	М																													1				-				1			0
MW42		M	26.2	2																					i		T	7	1								1				1
MW43		М																ī	40.6	10			,			1	1		1	1						13100					2
MW44						_			1.1	ı	1														·			1				·			26400	20800	1				2
MW45	M	M, R	2.1	2				1		1			64.1	29				*			16600	15900				ļ	1	1		1			3.1	· 2			1	1			4
MW46	М	R	i	İ			146	132			135000	115000									33000	21700	37500	32400	- 1810	1510											1				5
MW47			2.3	2									1				1						-				<b>—</b>								1	1		1.	1		1
MW48					1					<b>i</b>																<del> </del>	$\vdash$	1	<u> </u>						1	<u> </u>					0
MW49		М	42.4	2	1 .		1			1	1		1								32600	28700	11900	11800	l		1		1	<del> </del>			3.5	2			8	3	1	1.	5
LOWER A	QUIFER W	ELLS						•	•	·															•	'			1	'				·		1	•				
M-4D			<b></b>		1		Ι	T		ŀ		1	Τ														Т	1	T	T T						1	T	1	1 1		0
MW07				<del> </del>							1		<del> </del>																						1.						0
MW08		1	1								T	1														<u> </u>	1	1	1					<u> </u>	14200	13500	1				1
MW09R					1 1						1		<u> </u>															1	1				3.1	2	1				1		1
MW10C		1	i	1	1			1			Ì	1	1															1		† ·			3.1								1
MW23		1	2.3	2	1						1															<del>                                     </del>	1		1	1				<del> </del>	1	1	1	1	1		1
MW24			3.7	2							İ	1	T				· · ·									<del>                                     </del>	1	1					-	T	106000	95600	1	1	·		2
MW28		T	1	1	1					!																1	1		1		-			i	19100			1			1
MW29	М	М	60.2	2							1		30.1	24			i i	-							l	1	1	1	51	31		i				1 .	.1	1	1		3
MW30		R	2.6				228	210			1														i –	<b>!</b>	1		1	1				i	49600	40900	1.	1			3
MW31		1	1				272				i i	1	1										35600	35100	<u> </u>	<del> </del>	1		1	1				ļ		19800	1	1			3
MW32		1	1								T	1	$\vdash$				i i		<del></del>				49300	48000	<del>                                     </del>	1	1					i		1	1	1	1	1	1		1
MW33		1	2.3	2					1.5	1.4	i –		<del>                                     </del>							-					l	1	1	1		1				$\vdash$			1	1	1 1		2
MW34	M	1	T	<del> </del>		_	187	176		-	†	1	1						-	-		<del> </del>	53400	51000		<b> </b>	1	1	1	<del>                                     </del>		<del> </del>		<del>                                     </del>	1		1	1	<del>                                     </del>		2
MW50		М	2.3	2								1 :	146	130			1			$\neg \neg$			-		<u> </u>		1.1	0.2	109	105	-		3.1	2	İ		1		1 i		5
MW51		1	i T								1	1	1	1								<del> </del>		-		<b> </b>	1	i	1	<del>                                     </del>		1	3.1		1	1	1		T		1
MW52		1	1	<u> </u>						1	1	i -	<b>—</b> —	T			1								<del> </del>	†	_	1	1			İ		i –	1	1	1	1			0
MW53		<b> </b>	<b>—</b> —	<del> </del>	<del> </del>			-	1.4	ı	t -	1	<del> </del>	T .				•	-			<del> </del> -	-		1		_	1	1			i		<del>                                     </del>	1	1	T	1			. 1
MW54R		R	i				237	190	1.1		139000	132000	<b>†</b>										60900	54100		<del> </del>	1		<del> </del>	+		i		† · · ·	38300	28700	+	1	1		5
MW55	-		<b>-</b>	T-			<b></b>				1	1	$\vdash$			-	l i		<del></del>					48500	<del></del>	+	$\vdash$					İ		<del>   </del>	1	1	1	1	1		1
<del></del>		Numb	Ĵ		<del>†                                    </del>		i				i –		<del>                                     </del>			<del></del>	i	<del>-</del> †				-			<del>i -</del>		+		<del>                                     </del>	·	· · · · · · · · · · · · · · · · · · ·				Ť		†	· · · · · ·	<del>†</del>	<del>- 1</del> -	
		Number of Exceedances			3		7		7		3		4	-	3		1		l 		5		9		2		1		. 3		1		11		10		2		2		89

- Notes:

  1. See Appendix B for complete listing of inorganic analyses results

  2. Boxed numbers indicate that the inorganic species in the June 1999 results exceeded the maximum baseline concentration for that specie by a factor of 2x or more.

  3. Blank cells indicate that for the June 1999 sampling round, the inorganic specie did not exceed the baseline maximum

  4. Aluminum, beryllium, lead, silver, and zinc are not included on this table because there were no June 1999 exceedances of the Baseline by these species

  5. R = Recurrence: Sample results are potentially statistically significant due to recurrence of exceedance

  6. F = Frequency: Sample results are potentially statistically significant due to the frequency of exceedance (>25% or 7 individual analytes)

  7. M = Magnitude: Sample results are potentially statistically significant due to magnitude of exceedance (>2x maxium baseline)

### Table 11 **Summary of Natural Attenuation Sample Results** June 1999 **American Chemical Services Superfund Site** Griffith, Indiana

	···			Result	s (ug/L)		•	-
Analyte	MW18	MW19	MW38	MW39	MW40	MW41	MW45	MW48
Ammonia	<200	41,500	<200	2,900	<200	<200	1,000	4,000
Biological Oxygen Demand	<2000 /J	3,800	3,400 /J	2,900 /J	<2000 /J	<2000	2,900	11,000 /J
Nitrate/Nitrite	10,400	160	180	170	590	220	140	140
Nitrogen (Kjeldahl)	400	44,900	700	.3,500	300	<200	1,600	5,100 /J
Organic Carbon (total)	3,200	32,400	13,000	7,100	6,000	2,100	7,100	8,100
Ortho-phosphate	330	<20	880	690	870	460	810	550
Sulfate	46,700	<5000	25,600	26,200	31,900	36,600	<5000	8,000

#### Notes:

\_/J = Data qualifer added by data validator

**&** 

DRAINAGE (631.73) (631.81) (630.97) 8G12, (951.64) (631.90) (631.90) (631.98) (631.98) (631.98) (631.98) (631.98) (631.98) P62 (630.27) 630 7000 (635.31) 631 ◆ P60 (635.26) 6000 633 REDER ROAD MW6 🖶 635 © P61 (834.47) **MW47** 5000 P62<sup>()</sup> (632.22) 633 632 MW41 MW44 MW45 (629.42) 631 (629.88) **630** 4000 **₽ MW42** MW43 ₽ (628.23) 628

**LEGEND** 

635

UPPER AQUIFER WELL LOCATION AND DESIGNATION

LEACHATE WELL LOCATION AND DESIGNATION

PIEZOMETER LOCATION AND DESIGNATION

STAFF GAUGE LOCATION AND DESIGNATION

SURFACE DISCHARGE LOCATION FOR PERIMETER GROUND WATER CONTAINMENT SYSTEM

ORC PIEZOMETER LOCATION AND DESIGNATION

(632.00) GROUNDWATER ELEVATION

GROUNDWATER ELEVATION MEASURED BUT NOT USED FOR DETERMINATION OF THE POTENTIOMETRIC SURFACE

GROUNDWATER ELEVATION CONTOUR BASED ON GROUNDWATER ELEVATION DATA

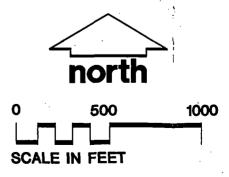
BARRIER WALL

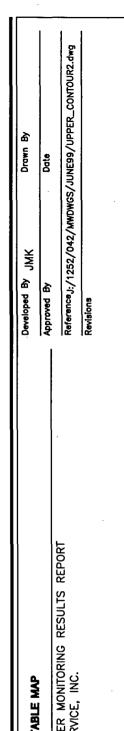
PERIMETER GROUND WATER CONTAINMENT SYSTEM

GRIFFITH LANDFILL BOUNDARY

#### NOTES

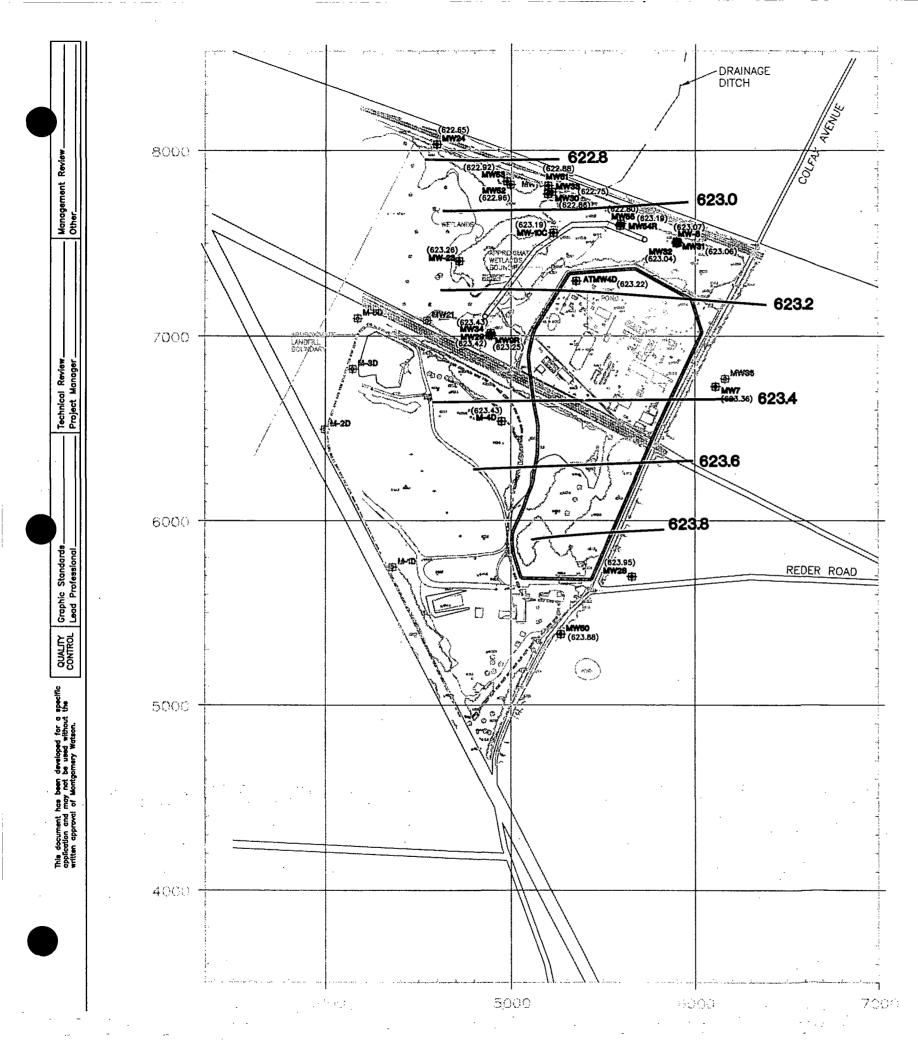
GROUNDWATER ELEVATIONS FOR WATER TABLE CONTOURS WERE MEASURED AT THE SITE ON JUNE 7, 1999.





Drawing Number 1252042 221601

MONTGOMERY WATSON



**LEGEND** 

BARRIER WALL

→ PERIMETER GROUND WATER CONTAINMENT SYSTEM

--- GRIFFITH LANDFILL BOUNDARY

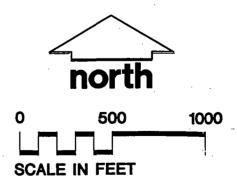
LOWER AQUIFER WELL LOCATION AND DESIGNATION

(632.00) GROUNDWATER ELEVATION

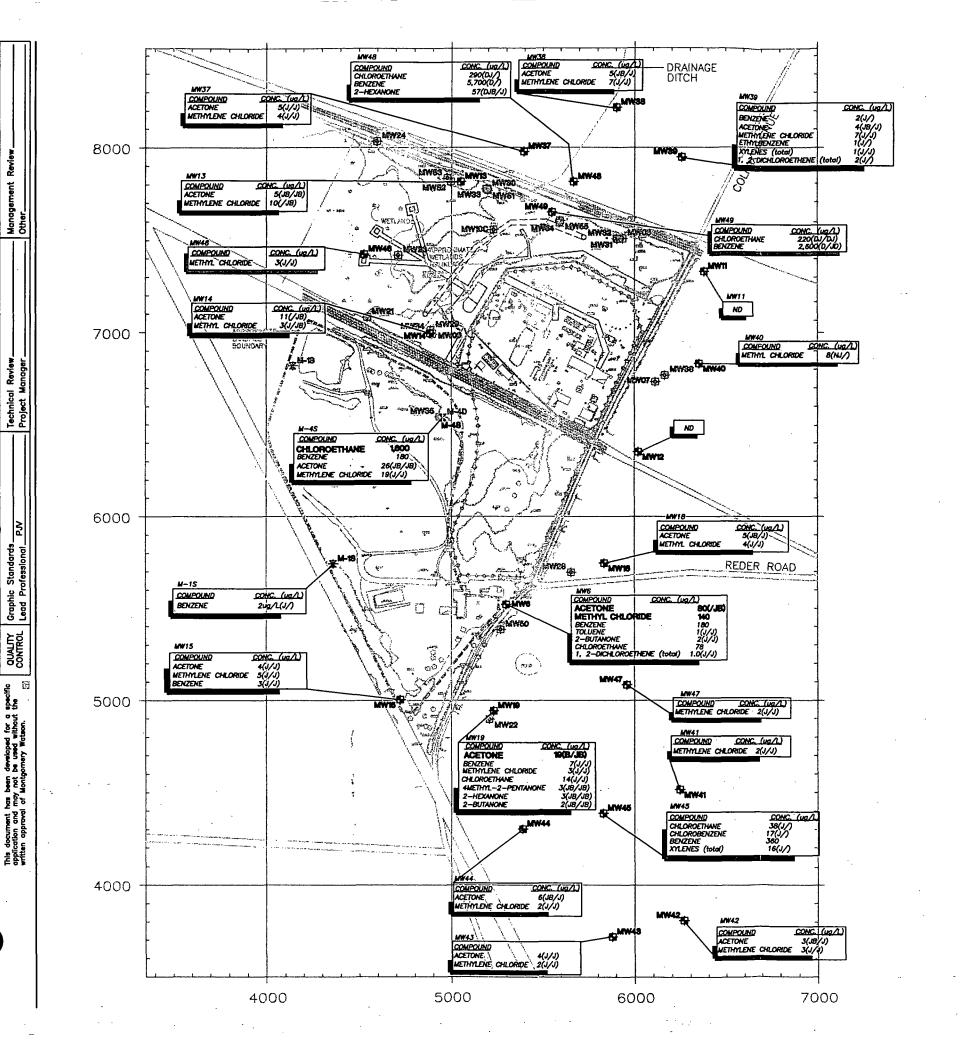
GROUNDWATER ELEVATION CONTOUR BASED ON GROUNDWATER ELEVATION DATA (DASHED WHERE INFERRED)

#### **NOTE**

GROUNDWATER ELEVATIONS FOR POTENTIOMETRIC SURFACE CONTOURS WERE MEASURED ON JUNE 7, 1999



Drawing Number 1252042 221602 MONTGOMERY WATSON



#### <u>LEGEND</u>

SF MW-12	UPPER	R AQUIFER	WELL	LOCATION
<b>Q</b>	AND D	ESIGNATIO	N .	

LEACHATE/LOWER AQUIFER WELL LOCATION AND DESIGNATION

ug/L MICROGRAMS PER LITER

(J/) INDICATES AN ESTIMATED VALUE (LAB)

(/J) INDICATES AN ESTIMATED VALUE (VALIDATED)

) INDICATES AN ESTIMATED VALUE (LAB/VALIDATED)

(B) INDICATES AN ESTIMATED VALUE (LAB/VALIDATED)

(N) INDICATES PRESENCE OF ANALYTE IS PRESUMPTIVE (LAB/VALIDATED)

(/) INDICATES NO DATA QUALIFIER NECESSARY

ND NO VOC DETECTED

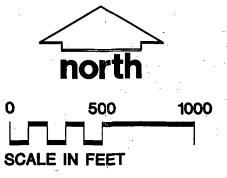
◆◆◆◆◆◆◆ BARRIER WALL

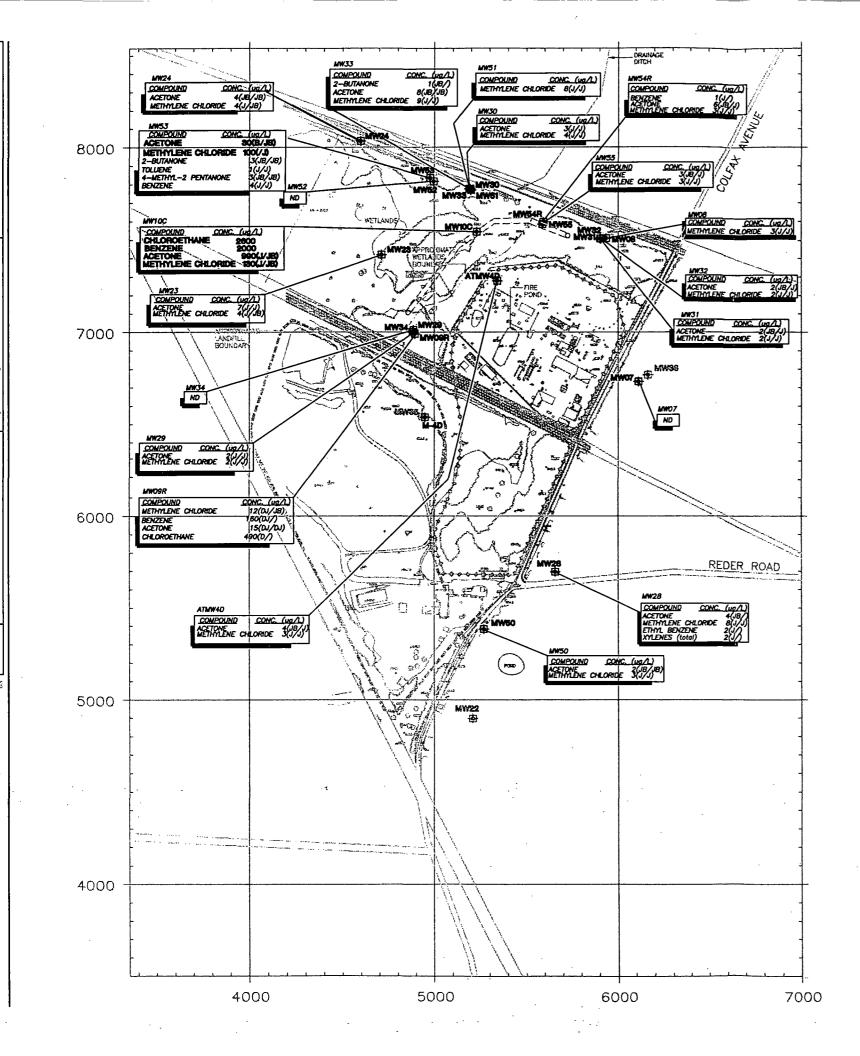
=== PERIMETER GROUND WATER CONTAINMENT SYSTEM

--- GRIFFITH LANDFILL BOUNDARY

#### **NOTE**

THE CONCENTRATION (AND ASSOCIATED COMPOUND)
SHOWN IN BOLD EXCEEDED BASELINE LEVELS





has been a may not l **LEGEND** 

LOWER AQUIFER MONITORING WELL LOCATION AND DESIGNATION

ug/L MICROGRAMS PER LITER

(J/) INDICATES AN ESTIMATED VALUE (LAB)

J) INDICATES AN ESTIMATED VALUE (VALIDATED)

D) INDICATES SAMPLE WAS DILUTED (LAB/VALIDATED)

(B) INDICATES COMPOUND FOUND IS ASSOCIATED BLANK (LAB/VALIDATED)

(/) INDICATES NO DATA QUALIFIER NECESSARY

ND NO VOC DETECTED

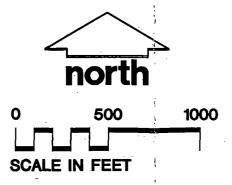
→→→→ BARRIER WALL

PERIMETER GROUND WATER CONTAINMENT SYSTEM

---- GRIFFITH LANDFILL BOUNDARY

#### <u>NOTE</u>

THE CONCENTRATION (AND ASSOCIATED COMPOUND) SHOWN IN BOLD EXCEEDED BASELINE MAXIMUM CONCENTRATIONS



VOCe DETECTED IN LOWER AQUIFER MONITORING WELLS

100 2 JUNE 1999 GROUNDWATER MONITORING RESULTS REPO
AMERICAN CHEMICAL SERVICE, INC.

100 2 AMERICAN CHEMICAL SERVICE, INC.

100 3 GRIFFITH, INDIANA

MONTGOMERY WATSON

JMS

4

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### APPENDIX A

# COMPARISON OF JUNE 1999 RESULTS TO BASELINE MAXIMUM CONCENTRATIONS

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect	<del></del>	Current	Event	]
		·	during Baseline	Result	LQ	DQ	Detect Limit
ATMMW-4I	1,1,1-Trichloroethane	UG/L			U		10
ATMMW-4I	1,1,2,2-Tetrachloroethane	UG/L			U		_10_
ATMMW-41	1,1,2-Trichloroethane	UG/L			U		_10
ATMMW-41	1,1-Dichloroethane	UG/L			U		_10
	1,1-Dichloroethene	UG/L			:U		10
ATMMW-41	1,2-Dichloroethane	UG/L			U		10
	1,2-Dichloroethene (total)	UG/L			U		_10
ATMMW-41	1,2-Dichloropropane	UG/L			U		10
ATMMW-41		UG/L		31	U		10
ATMMW-4I	2-Hexanone	UG/L	-		U		10
ATMMW-4I	4-Methyl-2-pentanone	UG/L			Ū		10
ATMMW-4I		UG/L		4	JB	J	10
ATMMW-41	Benzene	UG/L			U		10
	Bromodichloromethane	UG/L			U		10
ATMMW-4I		UG/L			U		10
	Bromomethane	UG/L			U		10
	Carbon disulfide	UG/L			U		10
	Carbon Tetrachloride	UG/L			U		10
	Chlorobenzene	UG/L			.U		10
ATMMW-4I	Chloroethane	UG/L			U		10
ATMMW-4I		UG/L			.U		_10
	Chloromethane	ÜG/L			:U		10
ATMMW-4I	cis-1,3-Dichloropropene	UG/L			U		10
	Dibromochloromethane	UG/L			·U		10
	Ethyl Benzene	UG/L	]		U		10
ATMMW-4I	Methylene chloride	UG/L		3	J	J	10
ATMMW-4I	Styrene	UG/L			U		10
ATMMW-4I	Tetrachloroethene	.UG/L			Ü		10
ATMMW-4I	Toluene	UG/L			U		10
ATMMW-4I	trans-1,3-Dichloropropene	UG/L			U		10
	Trichloroethene	UG/L			Ü		10
ATMMW-4I	Vinyl chloride	UG/L			U		10
	Xylenes (total)	UG/L			U		10
	1,1,1-Trichloroethane	UG/L	10		U		10
M-1S	1,1,2-Trichloroethane	UG/L	10		U		10
M-1S	1,1-Dichloroethene	UG/L	10		U		10
M-1S	Benzene	UG/L	10	2	J		10
M-1S	Chloroethane	UG/L	10		U		10
M-1S	Tetrachloroethene	UG/L	10	<u>,</u>	Ū		10
M-1S	Trichloroethene	UG/L	10		Ū		10
M-1S	Vinyl chloride	UG/L	10		Ū		10
M-4D	1,1,1-Trichloroethane	UG/L	10	<del> </del>	Ū		10
M-4D	1,1,2-Trichloroethane	UG/L	10		U		10
M-4D	1,1-Dichloroethene	UG/L	10		Ū	1	10
M-4D	Benzene	UG/L	10	-	Ū	J	10
M-4D	Chloroethane	UG/L	10		Ū	† <u>-</u>	10

BOLD = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
M-4D	Tetrachloroethene	UG/L	10		U		10
M-4D	Trichloroethene	UG/L	10		U		10
M-4D	Vinyl chloride	UG/L	10		U		10
M-4S	1,1,1-Trichloroethane	UG/L	100		U		100
M-4S	1,1,2,2-Tetrachloroethane	UG/L	100		U		100
M-4S	1,1,2-Trichloroethane	UG/L	100		U	:	100
M-4S	1,1-Dichloroethane	UG/L	100		U		100
M-4S	1,1-Dichloroethene	UG/L	100		Ū	·	100
M-4S	1,2-Dichloroethane	UG/L	100		U		100
M-4S	1,2-Dichloroethene (total)	UG/L	100		U		100
M-4S	1,2-Dichloropropane	UG/L	100		U		100
M-4S	2-Butanone	UG/L	100		U	UJ	100
M-4S	2-Hexanone	UG/L	100		U	UJ	100
M-4S	4-Methyl-2-pentanone	UG/L	100		U	UJ	100
M-4S	Acetone	UG/L	100	26	JB	JB	100
M-4S	Benzene	UG/L	190	180			100
M-4S	Bromodichloromethane	UG/L	100		U		100
M-4S	Bromoform	UG/L	100		U		100
M-4S	Bromomethane	UG/L	100		U		100
M-4S	Carbon disulfide	UG/L	100		U		100
M-4S	Carbon Tetrachloride	UG/L	100		U		100_
M-4S	Chlorobenzene	UG/L	100		U		100
M-4S	Chloroethane	UG/L	1,300	3421,600a.			100
M-4S	Chloroform	UG/L	100		U		100
M-4S	Chloromethane	UG/L	100		U		100
M-4S	cis-1,3-Dichloropropene	UG/L	100		U		100
M-4S	Dibromochloromethane	UG/L	100		· U		100
M-4S	Ethyl Benzene	UG/L	100		U		100
M-4S	Methylene chloride	UG/L	100	19	J	J	100
M-4S	Styrene	UG/L	100	•	U		100
M-4S	Tetrachloroethene	UG/L	100		U		100
M-4S	Toluene	UG/L	100		U		_ 100
M-4S	trans-1,3-Dichloropropene	UG/L	100		U		100
M-4S	Trichloroethene	UG/L	100		U		100
M-4S	Vinyl chloride	UG/L	100		U		100
M-4S	Xylenes (total)	UG/L	100		U		100
MW-06	1,1,1-Trichloroethane	UG/L	50		U		10 .
MW-06	1,1,2,2-Tetrachloroethane	UG/L	50		U		10
MW-06	1,1,2-Trichloroethane	UG/L	50		U		10
MW-06	1,1-Dichloroethane	UG/L	21		U		10
MW-06	1,1-Dichloroethene	UG/L	50		U	1	10
MW-06	1,2-Dichloroethane	UG/L	50		U	1	10
MW-06	1,2-Dichloroethene (total)	UG/L	26	1	J	J	10
MW-06	1,2-Dichloropropane	UG/L	50		U	1	10
MW-06	2-Butanone	UG/L	50	2	J	J	10
MW-06	2-Hexanone	UG/L	50		U	1	10

BOLD = Exceedance

NA = Not Applicable

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# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
	<u> </u>		during Baseline	Result	LQ	DQ	Detect Limit
MW-06	4-Methyl-2-pentanone	UG/L	50		U	-	10
MW-06	Acetone	UG/L	50	80		JB	10
MW-06	Benzene	UG/L	320	180			10
MW-06	Bromodichloromethane	UG/L	50		U		10
MW-06	Bromoform	UG/L	50		U		10
MW-06	Bromomethane	UG/L	50		U	,	10
MW-06	Carbon disulfide	UG/L	50		U		10
MW-06	Carbon Tetrachloride	UG/L	50		Ü		10
MW-06	Chlorobenzene	UG/L	- 50		U		10
MW-06	Chloroethane	UG/L	720	78		·	_ 10
MW-06	Chloroform	UG/L	50		U		10
MW-06	Chloromethane	UG/L	50		U	UJ	10
MW-06	cis-1,3-Dichloropropene	UG/L	50		U		10
MW-06	Dibromochloromethane	UG/L	50		U		10
MW-06	Ethyl Benzene	UG/L	16		U		10
MW-06	Methylene chloride	UG/L	17	140			10
MW-06	Styrene	UG/L	50		U		10
MW-06	Tetrachloroethene	UG/L	50		U		10
MW-06	Toluene	UG/L	50	1	J	J	10
MW-06	trans-1,3-Dichloropropene	UG/L	50		U		10
MW-06	Trichloroethene	UG/L	50		U		10
MW-06	Vinyl chloride	UG/L	50		ָט		10
MW-06	Xylenes (total)	UG/L	40		U		10
MW-07	1,1,1-Trichloroethane	UG/L	10		U		10
MW-07	1,1,2-Trichloroethane	UG/L	10	<u> </u>	U		10
MW-07	1,1-Dichloroethene	UG/L	10		U		10
MW-07	Benzene	UG/L	10	:	U		10
MW-07	Chloroethane	UG/L	10		U		10
MW-07	Tetrachloroethene	UG/L	10		U		.10
MW-07	Trichloroethene	UG/L	10		U		10
MW-08	1,1,1-Trichloroethane	UG/L	10		U	<u> </u>	10
MW-08	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-08	1,1,2-Trichloroethane	UG/L	10		U	<u> </u>	10
MW-08	1,1-Dichloroethane	UG/L	10		U		10
MW-08	1,1-Dichloroethene	UG/L	10		U		10
MW-08	1,2-Dichloroethane	UG/L	10		U		10
MW-08	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-08	1,2-Dichloropropane	UG/L	10		U		10
MW-08	2-Butanone	UG/L	10		U		10
MW-08	2-Hexanone	UG/L	10		U		10
MW-08	4-Methyl-2-pentanone	UG/L	10		U		10
MW-08	Acetone	UG/L	10		U		10
MW-08	Benzene	UG/L	10		U		10
MW-08	Bromodichloromethane	UG/L	10		U	1	10
MW-08	Bromoform	UG/L	10		U		10
MW-08	Bromomethane	UG/L	10		U		10

BOLD = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-08	Carbon disulfide	UG/L	-10		U		10
MW-08	Carbon Tetrachloride	UG/L	10		U		10
MW-08	Chlorobenzene	UG/L	10		U		10
MW-08	Chloroethane	UG/L	10		U		10
MW-08	Chloroform	UG/L	10		U		10
MW-08	Chloromethane	UG/L	-10		υ		10
MW-08	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-08	Dibromochloromethane	UG/L	10		U		10
MW-08	Ethyl Benzene	UG/L	10		U		10
MW-08	Methylene chloride	UG/L	10	. 3	J	J	10
MW-08	Styrene	UG/L	10		U		10
MW-08	Tetrachloroethene	UG/L	10		U		10
MW-08	Toluene <sup>-</sup>	UG/L	10		U		10
MW-08	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-08	Trichloroethene	UG/L	10		U		10
MW-08	Vinyl chloride	UG/L	10		U		10
MW-08	Xylenes (total)	UG/L	10		U		10
MW-09R	1.1,1-Trichloroethane	UG/L	200		U		56
MW-09R	1,1,2,2-Tetrachloroethane	UG/L	200		U		56
MW-09R	1,1,2-Trichloroethane	UG/L	200		U		56
	1,1-Dichloroethane	UG/L	200		U		56
	1,1-Dichloroethene	UG/L	200		U		56
MW-09R	1,2-Dichloroethane	UG/L	200	<del></del>	U		56
MW-09R	1,2-Dichloroethene (total)	UG/L	200		U		56
	1,2-Dichloropropane	UG/L	200		U		56
MW-09R	2-Butanone	UG/L	200		U		56
MW-09R	2-Hexanone	UG/L	200		U		56
MW-09R	4-Methyl-2-pentanone	UG/L	200		U		56
	Acetone	UG/L	. 200	15	DJ	DJ	56
MW-09R	Benzene	UG/L	310	160	D		56
MW-09R	Bromodichloromethane	UG/L	200		U		56
MW-09R	Bromoform	UG/L	200		U		56
MW-09R	Bromomethane	UG/L	200		U		56
	Carbon disulfide	UG/L	200		U		56
MW-09R	Carbon Tetrachloride	UG/L	200	-	U		56
MW-09R	Chlorobenzene	UG/L	200		U		56
MW-09R	Chloroethane	UG/L	2,900	490	D	1	56
MW-09R	Chloroform	UG/L	200		U		56
MW-09R	Chloromethane	UG/L	200		U	UJ	56
MW-09R	cis-1,3-Dichloropropene	UG/L	200	<del></del>	Ū	1	56
MW-09R	Dibromochloromethane	UG/L	200	<del></del>	U	1	56
MW-09R	Ethyl Benzene	UG/L	200		<del>  U</del>	1	56
MW-09R	Methylene chloride	UG/L	200	12	DJ	JB	56
MW-09R	Styrene	UG/L	200		U	<del> </del>	56
MW-09R	Tetrachloroethene	UG/L	200		Ū		56
MW-09R	Toluene	UG/L	200	<del></del>	Ū	<del>                                     </del>	56

BOLD = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline		Current	Event	
				Result	LQ	DQ	Detect Limit
MW-09R	trans-1,3-Dichloropropene	UG/L	200		U		56
MW-09R	Trichloroethene	UG/L	200		U		56
MW-09R	Vinyl chloride	UG/L	200		U.		56
MW-09R	Xylenes (total)	UG/L	200		Ü		56
MW-10C	1,1,1-Trichloroethane	UG/L	150	:	U		1,000
MW-10C	1,1,2,2-Tetrachloroethane	UG/L	150		Ü		1,000
MW-10C	1,1,2-Trichloroethane	UG/L	150		U		1,000
MW-10C	1,1-Dichloroethane	UG/L	150		U		1,000
MW-10C	1,1-Dichloroethene	UG/L	150		U·		_1,000
MW-10C	1,2-Dichloroethane	UG/L	150		U		1,000
MW-10C	1,2-Dichloroethene (total)	UG/L	150		U		1,000
MW-10C	1,2-Dichloropropane	UG/L	150		U		1,000
MW-10C	2-Butanone	UG/L	150		Ü		1,000
MW-10C	2-Hexanone	UG/L	150		U		1,000
MW-10C	4-Methyl-2-pentanone	UG/L	150		U		1,000
MW-10C	Acetone	UG/L	150	Mail 1990 Tables	J	JB	1,000
MW-10C	Benzene	UG/L	150	2,000	·		1,000
MW-10C	Bromodichloromethane	UG/L	150		U		1,000
MW-10C	Bromoform	UG/L	150		U		1,000
MW-10C	Bromomethane	UG/L	150		U		1,000
MW-10C	Carbon disulfide	UG/L	150		U	· ·	1,000
MW-10C	Carbon Tetrachloride	UG/L	150		Ü		1,000
MW-10C	Chlorobenzene	UG/L	150		U		1,000
MW-10C	Chloroethane	UG/L	420	2,600		1	1,000
MW-10C	Chloroform	UG/L	150		U		1,000
MW-10C	Chloromethane	UG/L	150		U	UJ	1,000
MW-10C	cis-1,3-Dichloropropene	UG/L	150		U		1,000
MW-10C	Dibromochloromethane	UG/L	150		Ü		1,000
MW-10C	Ethyl Benzene	UG/L	150		U		1,000
MW-10C	Methylene chloride	UG/L	128	TERRO130EdaE	J	JB	1,000
MW-10C	Styrene	UG/L	150		U		1,000
MW-10C	Tetrachloroethene	UG/L	150		U		1,000
MW-10C	Toluene	UG/L	150		U		1,000
	trans-1,3-Dichloropropene	UG/L	150		U		_1,000
	Trichloroethene	UG/L	150		U		1,000
	Vinyl chloride	UG/L	129		U		1,000
MW-10C	Xylenes (total)	UG/L	150		U		1,000
MW-11	1,1,1-Trichloroethane	UG/L	10		U	1	10
MW-11	1,1,2-Trichloroethane	UG/L	10		Ü	1	10
MW-11	1,1-Dichloroethene	UG/L	10		Ü		10
MW-11	Benzene	UG/L	10	<u>                                     </u>	U.	1	10
MW-11	Chloroethane	UG/L	10	<del>                                     </del>	Ū.		10
MW-11	Tetrachloroethene	UG/L	10		Ü	1	10
MW-11	Trichloroethene	UG/L	10	<del>                                     </del>	Ü		10
MW-11	Vinyl chloride	UG/L	10	<del>                                     </del>	Ū	<del></del>	10
MW-12	1,1,1-Trichloroethane	UG/L	10		U	<del>                                     </del>	10

BOLD: = Exceedance

NA = Not Applicable

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### **American Chemical Services NPL Site** Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
	•		during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-12	1,1,2-Trichloroethane	UG/L	10		U		10
MW-12	1,1-Dichloroethene	UG/L	10		U		10
MW-12	Benzene	UG/L	10		U		10
MW-12	Chloroethane	UG/L	10		U		10
MW-12	Tetrachloroethene	UG/L	10	. :	U		10
MW-12	Trichloroethene	UG/L	10		U		10 -
MW-12	Vinyl chloride	UG/L	. 10		U		10
MW-13	1,1,1-Trichloroethane	UG/L	50		U	UJ	10
MW-13	1,1,2,2-Tetrachloroethane	UG/L	50		U	UJ	10
MW-13	1,1,2-Trichloroethane	UG/L	50	:	U	UJ	10
MW-13	1,1-Dichloroethane	UG/L	50		· U	UJ	10
MW-13	1,1-Dichloroethene	UG/L.	50		U	UJ	10
MW-13	1,2-Dichloroethane	UG/L:	. 50		U	UJ	10
MW-13	1,2-Dichloroethene (total)	UG/L	50		U	UJ	10
MW-13	1,2-Dichloropropane	UG/L	50		U	UJ	10
MW-13	2-Butanone	UG/L	50		U	UJ	10
MW-13	2-Hexanone	UG/L	- 50		U	.UJ	10
MW-13	4-Methyl-2-pentanone	UG/L	50		U	UJ	10
MW-13	Acetone	UG/L	50	5 .	JB	JB	10
MW-13	Benzene	UG/L	610	٠	U	UJ	10
MW-13	Bromodichloromethane	UG/L	50		U	UJ	10
MW-13	Bromoform	UG/L	50	;	U	UJ	10
MW-13	Bromomethane	UG/L	50		U	UJ	10
MW-13	Carbon disulfide	UG/L	. 50		U	UJ	10
MW-13	Carbon Tetrachloride	UG/L	50		U	UJ	10
MW-13	Chlorobenzene	UG/L	50		U	UJ	10
MW-13	Chloroethane	UG/L	570		U	UJ	10
MW-13	Chloroform	UG/L	50		U	UJ	10
MW-13	Chloromethane	UG/L	50		U	UJ.	10
MW-13	cis-1,3-Dichloropropene	UG/L	50		U	UJ	10
MW-13	Dibromochloromethane	UG/L	50		U	UJ	10
MW-13	Ethyl Benzene	UG/L	50		U	UJ	10
MW-13	Methylene chloride	UG/L	50	10		UJ	10
MW-13	Styrene	UG/L	50		U	UJ	10
MW-13	Tetrachloroethene	UG/L	50		U	·UJ	10
MW-13	Toluene	UG/L	50		U	UJ	10
MW-13	trans-1,3-Dichloropropene	UG/L	50		U	UJ	10
MW-13	Trichloroethene	UG/L	50		U	UJ	10
MW-13	Vinyl chloride	UG/L	50		Ü	UJ	10
MW-13	Xylenes (total)	UG/L	50		U	UJ	10
MW-14	1,1,1-Trichloroethane	UG/L	100	, , , , , , , , , , , , , , , , , , , ,	Ū		10
MW-14	1,1,2,2-Tetrachloroethane	UG/L	100		Ŭ	1	10
MW-14	1,1,2-Trichloroethane	UG/L	100		Ŭ	<del>                                     </del>	10
MW-14	1,1-Dichloroethane	UG/L	100		U	<del>                                     </del>	10
MW-14	1,1-Dichloroethene	UG/L	100		U	<del>                                     </del>	10
MW-14	1,2-Dichloroethane	UG/L	100		U	<del>                                     </del>	10

**BOLD** = Exceedance NA = Not Applicable

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# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-14	1,2-Dichloroethene (total)	UG/L	100		U		10
MW-14	1,2-Dichloropropane	UG/L	100		U		10
MW-14	2-Butanone	UG/L	100		U		10
MW-14	2-Hexanone	UG/L	100		U		10
MW-14	4-Methyl-2-pentanone	UG/L	100		U		10
MW-14	Acetone	UG/L	100	11	:	JB	10
MW-14	Benzene	UG/L	41		U		10
MW-14	Bromodichloromethane	UG/L	100		· U		10
MW-14	Bromoform	UG/L	100		U		10
MW-14	Bromomethane	UG/L	100		Ŭ		10
MW-14	Carbon disulfide	UG/L	100		U		10
MW-14	Carbon Tetrachloride	UG/L	100		U		10
MW-14	Chlorobenzene	UG/L	100	-	U		10
MW-14	Chloroethane	UG/L	1,000		U		10
MW-14	Chloroform	UG/L	100		U		. 10
MW-14	Chloromethane	UG/L	100		U	UJ	10
MW-14	cis-1,3-Dichloropropene	UG/L	100		U		10
MW-14	Dibromochloromethane	UG/L	100		U	ĺ	10
MW-14	Ethyl Benzene	UG/L	100		U		10
MW-14	Methylene chloride	UG/L	14	3	J	JВ	10
MW-14	Styrene	UG/L	100		U		10
MW-14	Tetrachloroethene	UG/L	100		Ū		10
MW-14	Toluene	UG/L	100	•	U		10
MW-14	trans-1,3-Dichloropropene	UG/L	100	1	Ü		10
MW-14	Trichloroethene	UG/L	100		U		10
MW-14	Vinyl chloride	UG/L	100		U		10
MW-14	Xylenes (total)	UG/L	100		U		10
MW-15	1,1,1-Trichloroethane	UG/L	10	•	U		10
MW-15	1,1,2,2-Tetrachloroethane	UG/L	10	•	U	Ì	10
MW-15	1,1,2-Trichloroethane	UG/L	10		U ·		10
MW-15	1,1-Dichloroethane	UG/L	10	•	U		10
MW-15	1,1-Dichloroethene	UG/L	- 10		U		10
MW-15	1,2-Dichloroethane	UG/L	10	•	U		10
MW-15	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-15	1,2-Dichloropropane	UG/L	10		U		10
MW-15	2-Butanone	UG/L	10		U	UJ	10
MW-15	2-Hexanone	UG/L	10		U	UJ	10
MW-15	4-Methyl-2-pentanone	UG/L	10		U	UJ	10
MW-15	Acetone	UG/L	10	4	J	J	10
MW-15	Benzene	UG/L	10	3	J	J	10
MW-15	Bromodichloromethane	UG/L	10		U	1	10
MW-15	Bromoform	UG/L	10		Ü		10
MW-15	Bromomethane	UG/L	10		Ü	ĺ	10
MW-15	Carbon disulfide	UG/L	10	-· <u></u>	Ü	1	10
MW-15	Carbon Tetrachloride	UG/L	10		Ū	<del>                                     </del>	10
MW-15	Chlorobenzene	UG/L	10	-	Ū		10

BOLD = Exceedance

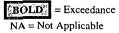
## **American Chemical Services NPL Site** Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-15	Chloroethane	UG/L	10		U	7	_10
MW-15	Chloroform	UG/L	10		U		_10
MW-15	Chloromethane	UG/L	10		Ü		10
MW-15	cis-1,3-Dichloropropene	UG/L	10		U		_10
MW-15	Dibromochloromethane	UG/L	10		U		_10
MW-15	Ethyl Benzene	UG/L	10	•	U		10
MW-15	Methylene chloride	UG/L	10	5	J	J	_10
MW-15	Styrene	UG/L	10		U		10
MW-15	Tetrachloroethene	UG/L	-10		U	-	_10
MW-15	Toluene	UG/L	10		U		_10
MW-15	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-15	Trichloroethene	UG/L	10		U		_10
MW-15	Vinyl chloride	UG/L	10		U		10
	Xylenes (total)	UG/L	10		U		_10
MW-18	1,1,1-Trichloroethane	UG/L	10		U		10
MW-18	1,1,2,2-Tetrachloroethane	.UG/L	10		U		_10
MW-18	1,1,2-Trichloroethane	UG/L	10		U		10
MW-18	1,1-Dichloroethane	UG/L	10		U		10
MW-18	1,1-Dichloroethene	UG/L	10		U		_10
MW-18	1,2-Dichloroethane	UG/L	10		U		10
MW-18	1,2-Dichloroethene (total)	UG/L	10		U		_10
MW-18	1,2-Dichloropropane	UG/L	10		U		_10
MW-18	2-Butanone	UG/L	10		U		_10
MW-18	2-Hexanone	UG/L	10		U		_10
MW-18	4-Methyl-2-pentanone	UG/L	10		U		10
MW-18	Acetone	UG/L	10	5	JB	J	_10
MW-18	Benzene	UG/L	10	:	U		10
MW-18	Bromodichloromethane	UG/L	10	·	U		_10
MW-18	Bromoform	UG/L	10		U		_10
MW-18	Bromomethane	UG/L	10		U		_10
MW-18	Carbon disulfide	UG/L	10		U		10
MW-18	Carbon Tetrachloride	UG/L	10		U		_10
MW-18	Chlorobenzene	UG/L	10		U		_10
MW-18	Chloroethane	UG/L	10		U		_10
MW-18	Chloroform	UG/L	10		U		10
MW-18	Chloromethane	UG/L	10		U		10
MW-18	cis-1,3-Dichloropropene	UG/L	10		U		_10
MW-18	Dibromochloromethane	UG/L	10		U		10
MW-18	Ethyl Benzene	UG/L	10		U		10
MW-18	Methylene chloride	UG/L	10	4	J	J	10
MW-18	Styrene	UG/L	10		Ü		_10
MW-18	Tetrachloroethene	UG/L	10		U		_10
MW-18	Toluene	UG/L	10		U		10
MW-18	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-18	Trichloroethene	UG/L	10		U		_10
MW-18	Vinyl chloride	UG/L	10		υ	1	10



### **American Chemical Services NPL Site** Griffith, Indiana

Well	Analyte	Units	Highest Detect	1	Current	Event	
l			during Baseline	Result	LQ	DQ	Detect Limit
MW-18	Xylenes (total)	UG/L	10		U		10
MW-19	1,1,1-Trichloroethane	UG/L	10		U	UJ	10
MW-19	1,1,2,2-Tetrachloroethane	UG/L	10		U	UJ	_10
MW-19	1,1,2-Trichloroethane	UG/L	10		U	UJ	_10
MW-19	1,1-Dichloroethane	UG/L	10		U	UJ	10
MW-19	1,1-Dichloroethene	UG/L	10		Ü	UJ	10
MW-19	1,2-Dichloroethane	UG/L	10		Ü	UJ	10
MW-19	1,2-Dichloroethene (total)	UG/L	10		Ü	UJ	10
MW-19	1,2-Dichloropropane	UG/L	10 ·		U	UJ	10
.MW-19	2-Butanone	UG/L	10	2	JB	JВ	10
MW-19	2-Hexanone	UG/L	. 10	3	JB	JВ	10
MW-19	4-Methyl-2-pentanone	UG/L	10	3	JB	JВ	10
MW-19	Acetone	UG/L	12	\$2519%#	В	JВ	10
MW-19	Benzene	UG/L	10	7		J	_10
MW-19	Bromodichloromethane	UG/L	10		U	UJ	10
MW-19	Bromoform	UG/L	10		U	UJ	10
MW-19	Bromomethane	UG/L	10	1	U	UJ	10
MW-19	Carbon disulfide	UG/L	10		U	UJ	10
MW-19	Carbon Tetrachloride	UG/L	10		Ü	UJ	10
MW-19	Chlorobenzene	UG/L	10		U	UJ	10
MW-19	Chloroethane	UG/L	20	14		J	10
MW-19	Chloroform	UG/L	10		U	UJ	10
MW-19	Chloromethane	UG/L	10		U	UJ	10
MW-19	cis-1,3-Dichloropropene	UG/L	10		U	UJ	10
MW-19	Dibromochloromethane	UG/L	10		U	UJ	10
MW-19	Ethyl Benzene	UG/L	10		U	UJ	10
MW-19	Methylene chloride	UG/L	10	3	J	J	10
MW-19	Styrene	UG/L	10		Ü	UJ	10
MW-19	Tetrachloroethene	UG/L	10		U	UJ	10
MW-19	Toluene	UG/L	10		U	UJ	10
MW-19	trans-1,3-Dichloropropene	UG/L	10		U	UJ	_10
MW-19	Trichloroethene	UG/L	10		U	UJ	10
MW-19	Vinyl chloride	UG/L	10		Ü	UJ	10
MW-19	Xylenes (total)	UG/L	10		U	UJ	10
MW-23	1,1,1-Trichloroethane	UG/L	10		U	<del>                                     </del>	10
MW-23	1,1,2,2-Tetrachloroethane	UG/L	10	<del> </del>	U	1	10
MW-23	1,1,2-Trichloroethane	UG/L	10		U	t	10
MW-23	1,1-Dichloroethane	UG/L	10		U	-	10
MW-23	1,1-Dichloroethene	UG/L	10	<u> </u>	U		10
MW-23	1,2-Dichloroethane	UG/L	10		U	<del>                                     </del>	10
MW-23	1,2-Dichloroethene (total)	UG/L	10	<u> </u>	U	-	10
MW-23	1,2-Dichloropropane	UG/L	10	<del> </del>	บ	†	10
MW-23	2-Butanone	UG/L	10		U		10
MW-23	2-Hexanone	UG/L	10	<del>                                     </del>	U	<del>                                     </del>	10
MW-23	4-Methyl-2-pentanone	UG/L	10	<del>                                     </del>	U		10
			<del></del> -	7		т	
MW-23	Acetone	UG/L	10	7	J	J	10



# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect	· · ·	Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-23	Benzene	UG/L	10		U		10
MW-23	Bromodichloromethane	UG/L	10		U		10
MW-23	Bromoform	UG/L	10		U		10
MW-23	Bromomethane	UG/L	10		U	-	10
MW-23	Carbon disulfide	UG/L	10		U		10
MW-23	Carbon Tetrachloride	UG/L	10		U		"10
MW-23	Chlorobenzene	UG/L	10		υ		10
MW-23	Chloroethane	UG/L	10	· · · · · · · · · · · · · · · · · · ·	U		10
MW-23	Chloroform	UG/L	10		U	1	- 10
MW-23	Chloromethane	UG/L	10		U		10
MW-23	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-23	Dibromochloromethane	UG/L	10	· · · · · · · · · · · · · · · · · · ·	Ū		10
MW-23	Ethyl Benzene	UG/L	10		U		10
MW-23	Methylene chloride	UG/L	10	4	J	JВ	10
MW-23	Styrene	UG/L	10		U		10
MW-23	Tetrachloroethene	UG/L	10		Ü		10
MW-23	Toluene	UG/L	10		Ü		10
MW-23	trans-1,3-Dichloropropene	UG/L	10		Ū		10
MW-23	Trichloroethene	UG/L	10		Ü		10
MW-23	Vinyl chloride	UG/L	10	-	Ü		10
MW-23	Xylenes (total)	UG/L	10		Ü		10
MW-24	1,1,1-Trichloroethane	UG/L	10		Ü		10
MW-24	1,1,2,2-Tetrachloroethane	UG/L	10		Ü		10
MW-24	1,1,2-Trichloroethane	UG/L	10	······································	Ü		10
MW-24	1,1-Dichloroethane	UG/L	10		Ü		10
MW-24	1,1-Dichloroethene	UG/L	10		U	<b> </b>	10
MW-24	1,2-Dichloroethane	UG/L	10		U		10
MW-24	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-24	1,2-Dichloropropane	UG/L	10		U		10
MW-24	2-Butanone	UG/L	10		U		10
MW-24	2-Hexanone	UG/L	10		U		10
MW-24	4-Methyl-2-pentanone	UG/L	10		U		10
MW-24	Acetone	UG/L	10	4	JB	JB	10
MW-24	Benzene	UG/L	10		U		10
MW-24	Bromodichloromethane	UG/L	10		U		10
MW-24	Bromoform	UG/L	10		Ū	1	10
MW-24	Bromomethane	UG/L	10		U	1	10
MW-24	Carbon disulfide	UG/L	10		Ü	1	10
MW-24	Carbon Tetrachloride	UG/L	10		U		10
MW-24	Chlorobenzene	UG/L	10		U	1	10
MW-24	Chloroethane	UG/L	10		U	1	10
MW-24	Chloroform	UG/L	10	<u> </u>	U	<del> </del>	10
MW-24	Chloromethane	UG/L	10		U	<del>                                     </del>	10
MW-24	cis-1,3-Dichloropropene	UG/L	10		U	<del> </del>	10
MW-24	Dibromochloromethane	UG/L	10		U	<u> </u>	10
MW-24	Ethyl Benzene	UG/L	10		U	<del> </del>	- Y
191 99 -24	Leniyi Denzene	J UU/L	1 10	L	1 0	1	10

BOLD: = Exceedance

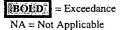
# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect	<del></del>	Current	Event	
	<u> </u>	1	during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-24	Methylene chloride	UG/L	: 10	4	J	JB	10
MW-24	Styrene	UG/L	10		U		10
MW-24	Tetrachloroethene	UG/L	10		Ü		10
MW-24	Toluene	UG/L	10		U		10
MW-24	trans-1,3-Dichloropropene	UG/L	10		. U		10
MW-24	Trichloroethene	UG/L	10		U	<u> </u>	10
MW-24	Vinyl chloride	UG/L	10		U		10
MW-24	Xylenes (total)	UG/L	10		U ·	Ì	10
MW-28	1;1,1-Trichloroethane	UG/L	10		· U		10
MW-28	1,1,2,2-Tetrachloroethane	UG/L	- 10		U	1	10
MW-28	1,1,2-Trichloroethane	UG/L	10		U		10
MW-28	1,1-Dichloroethane	UG/L	10		· U		10
MW-28	1,1-Dichloroethene	UG/L	10		U		10
MW-28	1,2-Dichloroethane	UG/L	10		U		10
MW-28	1,2-Dichloroethene (total)	UG/L	10		Ū		10
MW-28	1,2-Dichloropropane	UG/L	10		U		10
MW-28	2-Butanone	UG/L	10		U		10
MW-28	2-Hexanone	UG/L	10		U:	· · · · · · · · · · · · · · · · · · ·	10
MW-28	4-Methyl-2-pentanone	UG/L	10		U		10
MW-28	Acetone	UG/L	10	4	JB	J	10
MW-28	Benzene	UG/L	10		U		10
MW-28	Bromodichloromethane	UG/L	10		U		10
MW-28	Bromoform	UG/L	. 10		U		10
MW-28	Bromomethane	UG/L	10		· U		10
MW-28	Carbon disulfide	UG/L	10		U		10
MW-28	Carbon Tetrachloride	UG/L	10		U		10
MW-28	Chlorobenzene	UG/L	10		U		10
MW-28	Chloroethane	UG/L	10		U		10
MW-28	Chloroform	UG/L	10		U		10
MW-28	Chloromethane	UG/L	10		U		10
MW-28	cis-1,3-Dichloropropene	UG/L	10	·	U		10
MW-28	Dibromochloromethane	UG/L	10		U		10
MW-28	Ethyl Benzene	UG/L	10	2	J		10
MW-28	Methylene chloride	UG/L	10	8	J	J	10
MW-28	Styrene	UG/L	10		· U		10
MW-28	Tetrachloroethene	UG/L	10		U		10
MW-28	Toluene	UG/L	10		U		10
MW-28	trans-1,3-Dichloropropene	UG/L	10		U	ļ	10
MW-28	Trichloroethene	UG/L	10		U		10
MW-28	Vinyl chloride	UG/L	10		U		10
MW-28	Xylenes (total)	UG/L	10	2	J		10
MW-29	1,1,1-Trichloroethane	UG/L	10		U		10
MW-29	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-29	1,1,2-Trichloroethane	UG/L	10		Ū		10
MW-29	1,1-Dichloroethane	UG/L	10		U		10
MW-29	1,1-Dichloroethene	UG/L	10		U	· · · · · ·	10

\*BOLD\* = Exceedance
NA = Not Applicable

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	• • •
Ì	<u> </u>	1	during Baseline	Result	LQ	DQ	Detect Limit
MW-29	1,2-Dichloroethane	UG/L	10		U		10
MW-29	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-29	1,2-Dichloropropane	UG/L	10		U		10
MW-29	2-Butanone	UG/L	10		U		10
MW-29	2-Hexanone	UG/L	10	· - · · · · · · · · · · · · · · · ·	U		10
MW-29	4-Methyl-2-pentanone	UG/L	10		U	:	10
MW-29	Acetone	UG/L	10	2	J	J	10
MW-29	Benzene .	UG/L	10		Ū	•	10
MW-29	Bromodichloromethane	UG/L	10		U		10
MW-29	Bromoform	UG/L	10		U		10
MW-29	Bromomethane	UG/L	10		U		10
MW-29	Carbon disulfide	UG/L	10		U		10
MW-29	Carbon Tetrachloride	UG/L	10		U		10
MW-29	Chlorobenzene	UG/L	10		U		10
MW-29	Chloroethane	UG/L	10		U		10
MW-29	Chloroform	UG/L	10		U		10
MW-29	Chloromethane	UG/L	10		U		10
MW-29	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-29	Dibromochloromethane	UG/L	10		U		10
MW-29	Ethyl Benzene	UG/L	10	-	U		10
MW-29	Methylene chloride	UG/L	10	2	J	J	10
MW-29	Styrene	UG/L	10		U		10
MW-29	Tetrachloroethene	UG/L	10		U		10
MW-29	Toluene	UG/L	10		U		10
MW-29	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-29	Trichloroethene	UG/L	10		U		10
MW-29	Vinyl chloride	UG/L	10		. U		10
MW-29	Xylenes (total)	UG/L	10		U		10
MW-30	1,1,1-Trichloroethane	UG/L	10		U		10
MW-30	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-30	1,1,2-Trichloroethane	UG/L	10		U		10
MW-30	1,1-Dichloroethane	UG/L	10		U		10
MW-30	1,1-Dichloroethene	UG/L	10		U		10
MW-30	1,2-Dichloroethane	UG/L	10		U		10
MW-30	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-30	1,2-Dichloropropane	UG/L	10		U		10
MW-30	2-Butanone	UG/L	10		U		10
MW-30	2-Hexanone	UG/L	10		U		10
MW-30	4-Methyl-2-pentanone	UG/L	10		U		10
MW-30	Acetone	UG/L	10	3	J	J	10
MW-30	Benzene	UG/L	10		U		10
MW-30	Bromodichloromethane	UG/L	10		U		10
MW-30	Bromoform	UG/L	10		U		10
MW-30	Bromomethane	UG/L	10		U		10
MW-30	Carbon disulfide	UG/L	10		U		10
MW-30	Carbon Tetrachloride	UG/L	10		U	Ì	10



## American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
	1		during Baseline	Result	LQ	DQ	Detect Limit
MW-30	Chlorobenzene	UG/L	10		Ū		10
MW-30	Chloroethane	UG/L	10		U		10
MW-30	Chloroform	UG/L	10	- "	Ū	:	10
MW-30	Chloromethane	UG/L	10		Ū		10
MW-30	cis-1,3-Dichloropropene	UG/L	10		Ū		10
MW-30	Dibromochloromethane	UG/L	10		Ū		. 10
MW-30	Ethyl Benzene	UG/L	10		Ü.		10
MW-30	Methylene chloride	UG/L	10	4	J.	J	. 10
MW-30	Styrene	UG/L	10		U		10
MW-30	Tetrachloroethene	UG/L	10		U		- 10
MW-30	Toluene	UG/L	10		Ü		10
MW-30	trans-1,3-Dichloropropene	UG/L	10		Ü		10
MW-30	Trichloroethene	UG/L	10		U		10
MW-30	Vinyl chloride	UG/L	10		Ü		10
MW-30	Xylenes (total)	UG/L	10		U		10
MW-31	1.1.1-Trichloroethane	UG/L	10		U		10
MW-31	1,1,2,2-Tetrachloroethane	UG/L	10		Ū		10
MW-31	1,1,2-Trichloroethane	UG/L	10		Ū		10
MW-31	1,1-Dichloroethane	UG/L	10	· · ·	Ū		10
MW-31	1,1-Dichloroethene	UG/L	10		Ū		10
MW-31	1,2-Dichloroethane	UG/L	10		Ü		.10
MW-31	1,2-Dichloroethene (total)	UG/L	10		Ū		10
MW-31	1,2-Dichloropropane	UG/L	10		Ü		10
MW-31	2-Butanone	UG/L	10		Ū		10
MW-31	2-Hexanone	UG/L	10		U	<u> </u>	10
MW-31	4-Methyl-2-pentanone	UG/L	10		U	<u> </u>	10
MW-31	Acetone	UG/L	10	2	JB	J	10
MW-31	Benzene	UG/L	10		U		10 _
MW-31	Bromodichloromethane	UG/L	10		U	ĺ	10
MW-31	Bromoform	UG/L	10		U		10
MW-31	Bromomethane	UG/L	10		U		10
MW-31	Carbon disulfide	UG/L	10		Ū		10
MW-31	Carbon Tetrachloride	UG/L	10		U		10
MW-31	Chlorobenzene	UG/L	10		U		10
MW-31	Chloroethane	UG/L	10		Ū		10
MW-31	Chloroform	UG/L	10		Ū	1	10
MW-31	Chloromethane	UG/L	10		Ū		10
MW-31	cis-1,3-Dichloropropene	UG/L	10		Ŭ		10
MW-31	Dibromochloromethane	UG/L	10		U	1	10
MW-31	Ethyl Benzene	UG/L	10		Ü	1	10
MW-31	Methylene chloride	UG/L	10	2	$\frac{\sigma}{J}$	J	10
MW-31	Styrene Styrene	UG/L	10		Ü	†	10
MW-31	Tetrachloroethene	UG/L	10		U	1	10
MW-31	Toluene	UG/L	10		U	<del> </del>	10
MW-31	trans-1,3-Dichloropropene	UG/L	10		U U	<del>                                     </del>	10
MW-31	Trichloroethene	UG/L	10		<del>U</del>	1	10
141 44 -21	1 i i chioroeuiene	L OG/L	1101			<u> 1                                   </u>	

**BOLD** = Exceedance

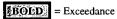
# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-31	Vinyl chloride	UG/L	10		U		10
MW-31	Xylenes (total)	UG/L	10		U		10
MW-32	1,1,1-Trichloroethane	UG/L	10		U		10
MW-32	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-32	1,1,2-Trichloroethane	UG/L	10		U		10
MW-32	1,1-Dichloroethane	UG/L	10		. U		10
MW-32	1,1-Dichloroethene	UG/L	10		U		10
MW-32	1,2-Dichloroethane	UG/L	10		U		10
MW-32	1,2-Dichloroethene (total)	UG/L	10	· <del></del>	· U		10
MW-32	1,2-Dichloropropane	UG/L	10		· U		10
MW-32	2-Butanone	UG/L	10		U		10
MW-32	2-Hexanone	UG/L	10		U		10
MW-32	4-Methyl-2-pentanone	UG/L	10		U		10
MW-32	Acetone	UG/L	10	2	JB	J	_ 10
MW-32	Benzene	UG/L	10		U		10
MW-32	Bromodichloromethane	UG/L	10		U		10
MW-32	Bromoform	UG/L	10		U		10
MW-32	Bromomethane	UG/L	10		U		10
MW-32	Carbon disulfide	UG/L	10		U		10
MW-32	Carbon Tetrachloride	UG/L	10		U		10
MW-32	Chlorobenzene	UG/L	10		U		10_
MW-32	Chloroethane	UG/L	10	:	U		10
MW-32	Chloroform	UG/L	10		U		10
MW-32	Chloromethane	UG/L	10		U		10
MW-32	cis-1,3-Dichloropropene	UG/L	. 10		U		10
MW-32	Dibromochloromethane	UG/L	10		U		10
MW-32	Ethyl Benzene	UG/L	10		U		10
MW-32	Methylene chloride	UG/L	10	2	J	J	10
MW-32	Styrene	ÚG/L	10		U		10
MW-32	Tetrachloroethene	UG/L	10		U		10
MW-32	Toluene	UG/L	10		U		10
MW-32	trans-1,3-Dichloropropene	UG/L	10		Ü		10
MW-32	Trichloroethene	UG/L	10		U		10
MW-32	Vinyl chloride	UG/L	10		U		10
MW-32	Xylenes (total)	UG/L	10		U		10
MW-33	1,1,1-Trichloroethane	UG/L	10		U		10
MW-33	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-33	1,1,2-Trichloroethane	UG/L	10		U		10
MW-33	1,1-Dichloroethane	UG/L	10		U		10
MW-33	1,1-Dichloroethene	UG/L	10	*****	U		10
MW-33	1,2-Dichloroethane	UG/L	10		Ū		10
MW-33	1,2-Dichloroethene (total)	UG/L	10		Ū		10
MW-33	1,2-Dichloropropane	UG/L	10	· · · · · · · ·	Ū	1	10
MW-33	2-Butanone	UG/L	10	1	ЛВ		10
MW-33	2-Hexanone	UG/L	10	<u> </u>	U	<u> </u>	10
MW-33	4-Methyl-2-pentanone	UG/L	10		U	· ·	10

**BOLD**: = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event				
				Result	LQ	DQ	Detect Limit	
MW-33	Acetone	UG/L	10	8	JВ	JB	10	
MW-33	Benzene	UG/L	10		U		10	
MW-33	Bromodichloromethane	UG/L	10	· <u>-</u>	U		10	
MW-33	Bromoform	UG/L	10		· U		10	
MW-33	Bromomethane	UG/L	10		: U		10	
MW-33	Carbon disulfide	UG/L	: 10		U		10	
MW-33	Carbon Tetrachloride	UG/L	10		U		10	
MW-33	Chlorobenzene	UG/L	10	÷	U		10	
MW-33	Chloroethane	UG/L	10		U		10	
MW-33	Chloroform	UG/L	10		U		10	
MW-33	Chloromethane	UG/L	10		U		10	
MW-33	cis-1,3-Dichloropropene	UG/L	10		U		10	
MW-33	Dibromochloromethane	UG/L	10		U		10	
MW-33	Ethyl Benzene	UG/L	10		U		10	
MW-33	Methylene chloride	UG/L	10	9	J	J	10	
MW-33	Styrene	UG/L	10		U		10	
MW-33	Tetrachloroethene	UG/L	10		U		10	
MW-33	Toluene	UG/L	10		U		10	
MW-33	trans-1,3-Dichloropropene	UG/L	10		U		10	
MW-33	Trichloroethene	UG/L	10		U		10	
MW-33	Vinyl chloride	UG/L	10		U		10	
MW-33	Xylenes (total)	UG/L	10		U		10	
MW-34	1,1,1-Trichloroethane	UG/L	10	<u> </u>	U	·UJ	10	
MW-34	1,1,2-Trichloroethane	UG/L	10		U	UJ	10	
MW-34	1,1-Dichloroethene	UG/L	10		U	UJ	10	
MW-34	Benzene	UG/L	10		U	UJ	10	
MW-34	Chloroethane	UG/L	10		U	UJ	10	
MW-34	Tetrachloroethene	UG/L	10		U	UJ	10	
MW-34	Trichloroethene	UG/L	10		U	UJ	10	
MW-34	Vinyl chloride	UG/L	10		U	UJ	10	
MW-37	1,1,1-Trichloroethane	UG/L	10		U		10	
MW-37	1,1,2,2-Tetrachloroethane	UG/L	10		U		10	
MW-37	1,1,2-Trichloroethane	UG/L	10		U	<u> </u>	10	
MW-37	1,1-Dichloroethane	UG/L	10		U		10	
MW-37	1,1-Dichloroethene	UG/L	10		U		10	
MW-37	1,2-Dichloroethane	UG/L	10		U	]	10	
MW-37	1,2-Dichloroethene (total)	UG/L	10		U	]	10	
MW-37	1,2-Dichloropropane	UG/L	10		U		10	
MW-37	2-Butanone	UG/L	10		U		10	
MW-37	2-Hexanone	UG/L	10		U		10	
MW-37	4-Methyl-2-pentanone	UG/L	10		U		10	
MW-37	Acetone	UG/L	10	5	J	J	10	
MW-37	Benzene	UG/L.	10		U		10	
MW-37	Bromodichloromethane	UG/L	10		U		10	
MW-37	Bromoform	UG/L	10		U		10	
MW-37	Bromomethane	UG/L	10		U		10	



# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	<b>Detect Limit</b>
MW-37	Carbon disulfide	UG/L	10	,	U		10
MW-37	Carbon Tetrachloride	UG/L	10	• •	U		10
MW-37	Chlorobenzene	UG/L	10		U		10
MW-37	Chloroethane	UG/L	10		U		10
:MW-37	Chloroform	UG/L	10		U		10
MW-37	Chloromethane	UG/L	10		U		10
MW-37	cis-1,3-Dichloropropene	UG/L	. 10	· · · · · · · · · · · · · · · · · · ·	U		10
MW-37	Dibromochloromethane	UG/L	10	_	U		10
MW-37	Ethyl Benzene	UG/L	10	•	U		10
MW-37	Methylene chloride	UG/L	10	- 4	J	J	10
MW-37	Styrene	UG/L	10		U		10
MW-37	Tetrachloroethene	UG/L	10		U		10
MW-37	Toluene	UG/L	10		U		10
MW-37	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-37	Trichloroethene	UG/L	10		U		10
MW-37	Vinyl chloride	UG/L	10		U		10
MW-37	Xylenes (total)	UG/L	10		U		10
MW-38	1,1,1-Trichloroethane	UG/L	10		U		10
MW-38	1,1,2,2-Tetrachloroethane	UG/L	10		U	<u> </u>	10
MW-38	1,1,2-Trichloroethane	UG/L	10		U		10
MW-38	1,1-Dichloroethane	UG/L	10		U		10
MW-38	1,1-Dichloroethene	UG/L	10		U		10
MW-38	1,2-Dichloroethane	UG/L	10		U		10
MW-38	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-38	1,2-Dichloropropane	UG/L	10		U		10
MW-38	2-Butanone	UG/L	10		U		10
MW-38	2-Hexanone	UG/L	10		U		10
MW-38	4-Methyl-2-pentanone	UG/L	10		U		10
MW-38	Acetone	UG/L	10	5	JB	J	10
MW-38	Benzene	UG/L	10		U		10
MW-38	Bromodichloromethane	UG/L	10		U		10
MW-38	Bromoform	UG/L	10		U		10
MW-38	Bromomethane	UG/L	10		U		10
MW-38	Carbon disulfide	UG/L	10		U		10
MW-38	Carbon Tetrachloride	UG/L	10		U		10
MW-38	Chlorobenzene	UG/L	10		.U		10
MW-38	Chloroethane	UG/L	10		Ū		10
MW-38	Chloroform	UG/L	10	<del> </del>	U		10
MW-38	Chloromethane	UG/L	10		Ū	Ī	10
MW-38	cis-1,3-Dichloropropene	UG/L	10		U	<u> </u>	10
MW-38	Dibromochloromethane	UG/L	10		Ū		10
MW-38	Ethyl Benzene	UG/L	10		Ū		10
MW-38	Methylene chloride	UG/L	10	7	J	J	10
MW-38	Styrene	UG/L	10	<del>-</del>	Ü		10
MW-38	Tetrachloroethene	UG/L	10		U		10
MW-38	Toluene	UG/L	10		Ū		10

BOLD = Exceedance

## American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event				
				Result	LQ	DQ	Detect Limit	
MW-38	trans-1,3-Dichloropropene	UG/L	10		U		10	
MW-38	Trichloroethene	UG/L	10		U		10	
MW-38	Vinyl chloride	UG/L	10		U		10	
MW-38	Xylenes (total)	UG/L	10		U		10	
MW-39	1,1,1-Trichloroethane	UG/L	10		U		10	
MW-39	1,1,2,2-Tetrachloroethane	UG/L	10		U.		10	
MW-39	1,1,2-Trichloroethane	UG/L	10		U		10	
MW-39	1,1-Dichloroethane	UG/L	10		U	]	10	
MW-39	1,1-Dichloroethene	UG/L	10		U		10	
MW-39	1,2-Dichloroethane	UG/L	10		U		10	
MW-39	1,2-Dichloroethene (total)	UG/L	10	2	J		10	
MW-39	1,2-Dichloropropane	UG/L	10		U	Ì	10	
MW-39	2-Butanone	UG/L	10		U		10	
MW-39	2-Hexanone	UG/L	10		U		10	
MW-39	4-Methyl-2-pentanone	UG/L	10		U		10	
MW-39	Acetone	UG/L	10	4	JB	J	10	
MW-39	Benzene	UG/L	12	2	J	Ì	10	
MW-39	Bromodichloromethane	UG/L	10		U		10	
MW-39	Bromoform	UG/L	10		U		10	
MW-39	Bromomethane	UG/L	10		U		10	
MW-39	Carbon disulfide	UG/L	10		U		10	
MW-39	Carbon Tetrachloride	UG/L	10		U	1	10	
MW-39	Chlorobenzene	UG/L	10		U		10	
MW-39	Chloroethane	UG/L	10		U		10	
MW-39	Chloroform	UG/L	10		U		10	
MW-39	Chloromethane	UG/L	10		U		10	
MW-39	cis-1,3-Dichloropropene	UG/L	10		U		. 10	
MW-39	Dibromochloromethane	UG/L	10		U		10	
MW-39	Ethyl Benzene	UG/L	10	1	J	ŀ	10	
MW-39	Methylene chloride	UG/L	10	7	J·	J	10	
MW-39	Styrene	UG/L	10		U		10	
MW-39	Tetrachloroethene	UG/L	10		U		10	
MW-39	Toluene	UG/L	10		U		10	
MW-39	trans-1,3-Dichloropropene	UG/L	10		U		_10	
MW-39	Trichloroethene	UG/L	10		U		10	
MW-39	Vinyl chloride	UG/L	10		U	1	10	
MW-39	Xylenes (total)	UG/L	10	1	J		10	
MW-40	1,1,1-Trichloroethane	UG/L	10		U	1	10	
MW-40	1,1,2-Trichloroethane	UG/L	10	<del></del> +	Ū		10	
MW-40	1,1-Dichloroethene	UG/L	10	·	Ū		10	
MW-40	Benzene	UG/L	10		Ū		10	
MW-40	Chloroethane	UG/L	10		Ū	1	10	
MW-40	Methylene chloride	UG/L	10	8	NJ	1	NA NA	
MW-40	Tetrachloroethene	UG/L	10	<u>~</u>	U	†	10	
MW-40	Trichloroethene	UG/L	10		U		10	
MW-40	Vinyl chloride	UG/L	10		U	<del> </del>	10	

**BOLD** = Exceedance

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-41	1,1,1-Trichloroethane	UG/L	10		U		10
MW-41	1,1,2,2-Tetrachloroethane	UG/L	10		U	<u> </u>	10
MW-41	1,1,2-Trichloroethane	UG/L	10		U		10
MW-41	1,1-Dichloroethane	UG/L	10		U		10
MW-41	1,1-Dichloroethene	UG/L	10		U		10
- MW-41	1,2-Dichloroethane	UG/L	10		Ü		10
MW-41	1,2-Dichloroethene (total)	UG/L	10		Ü		. 10
MW-41	1,2-Dichloropropane	U.G/L	10		U		10
MW-41	2-Butanone	UG/L	10		· U		10
MW-41	2-Hexanone	UG/L	10		U		10
MW-41	4-Methyl-2-pentanone	UG/L	10		U		10
MW-41	Acetone	UG/L	10		U		10
MW-41	Benzene	UG/L	10	·	U		10
MW-41	Bromodichloromethane	UG/L	10		U		10
MW-41	Bromoform	UG/L	10		U		10
MW-41	Bromomethane	UG/L	10		U		10
MW-41	Carbon disulfide	UG/L	10		U		10
MW-41	Carbon Tetrachloride	UG/L	10		U		10
MW-41	Chlorobenzene	UG/L	10		U		10
MW-41	Chloroethane	UG/L	10		U		10
MW-41	Chloroform	UG/L	10		U		10
MW-41	Chloromethane	UG/L	10		U		10
MW-41	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-41	Dibromochloromethane	UG/L	10		U		10
MW-41	Ethyl Benzene	UG/L	10		U		10
MW-41	Methylene chloride	UG/L	10	2	J	J	10
MW-41	Styrene	UG/L	10		U		10
MW-41	Tetrachloroethene	UG/L	10		U		10
MW-41	Toluene	UG/L	10		U		10
MW-41	trans-1,3-Dichloropropene	UG/L	10		U	-	10
MW-41	Trichloroethene	UG/L	10		U		10
MW-41	Vinyl chloride	UG/L	10		U		10
MW-41	Xylenes (total)	UG/L	10		U		10
MW-42	1,1,1-Trichloroethane	UG/L	10		U		10
MW-42	1,1,2,2-Tetrachloroethane	UG/L	10		U	1	10
MW-42	1,1,2-Trichloroethane	UG/L	10		U		10
MW-42	1,1-Dichloroethane	UG/L	10		U		10
MW-42	1,1-Dichloroethene	UG/L	10		U		10
MW-42	1,2-Dichloroethane	UG/L	10		U		10
MW-42	1,2-Dichloroethene (total)	UG/L	10		Ū		10
MW-42	1,2-Dichloropropane	UG/L	10		U	1	10
MW-42	2-Butanone	UG/L	10		U	†	10
MW-42	2-Hexanone	UG/L	10		U	1	10
MW-42	4-Methyl-2-pentanone	UG/L	10		Ü	<b>†</b>	10
MW-42	Acetone	UG/L	10	3	JВ	J	10
MW-42	Benzene	UG/L	10	<u> </u>	U	<b>T</b>	10



### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-42	Bromodichloromethane	UG/L	10		U		10
MW-42	Bromoform	UG/L	10	•	U		10
MW-42	Bromomethane	UG/L	10		U		10
MW-42	Carbon disulfide	UG/L	10		U		10
MW-42	Carbon Tetrachloride	UG/L	10		U		10
MW-42	Chlorobenzene	UG/L	10		U		- 10
MW-42	Chloroethane	UG/L	10		U		10
MW-42	Chloroform	UG/L	. 10		U		10
MW-42	Chloromethane	UG/L	10		U		10
MW-42	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-42	Dibromochloromethane	UG/L	10	÷ .	U		10
MW-42	Ethyl Benzene	UG/L	10		U		10
MW-42	Methylene chloride	UG/L	10	3	J	J	10
MW-42	Styrene	UG/L	10		U		10
MW-42	Tetrachloroethene-	UG/L	10		U		10
MW-42	Toluene	UG/L	10		U		10
MW-42	trans-1,3-Dichloropropene	UG/L	10		· U		10
MW-42	Trichloroethene	UG/L	10		U		10
MW-42	Vinyl chloride	UG/L	10		U		10
MW-42	Xylenes (total)	UG/L	10		U		10
- MW-43	1,1,1-Trichloroethane	UG/L	10		U		10
MW-43	1,1,2,2-Tetrachloroethane	UG/L	10		Ü		10
MW-43	1,1,2-Trichloroethane	UG/L	10		U		10
MW-43	1,1-Dichloroethane	UG/L	10		U		10
MW-43	1,1-Dichloroethene	UG/L	10		U		10
MW-43	1,2-Dichloroethane	UG/L	10		U		10
MW-43	1.2-Dichloroethene (total)	UG/L	10		U		10
MW-43	1,2-Dichloropropane	UG/L	10		U		_10_
MW-43	2-Butanone	UG/L	10		U		10
MW-43	2-Hexanone	UG/L	10		U		10
MW-43	4-Methyl-2-pentanone	UG/L	10		U		10
MW-43	Acetone	UG/L	10	4	J	J	10
MW-43	Benzene	UG/L	10		U		10
MW-43	Bromodichloromethane	UG/L	10		Ü		10
MW-43	Bromoform	UG/L	10		U		10
MW-43	Bromomethane	UG/L	10		U		10
MW-43	Carbon disulfide	UG/L	10		U		_10
MW-43	Carbon Tetrachloride	UG/L	10		U		10
MW-43	Chlorobenzene	UG/L	10		U		10
MW-43	Chloroethane	UG/L	10		U		10_
MW-43	Chloroform	UG/L	10		U		10
MW-43	Chloromethane	UG/L	10		U		10
MW-43	cis-1,3-Dichloropropene	UG/L	10		U	Ī	10
MW-43	Dibromochloromethane	UG/L	10		U	1	10_
MW-43	Ethyl Benzene	UG/L	10		U		10
MW-43	Methylene chloride	UG/L	10	2	J	J	10

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BOLD = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

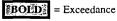
Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-43	Styrene	UG/L	10		U		10
MW-43	Tetrachloroethene	UG/L	10		U		10
MW-43	Toluene	UG/L	10		U U		10
MW-43	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-43	Trichloroethene	UG/L	10		U		10
MW-43	Vinyl chloride	UG/L	10		U		10
MW-43	Xylenes (total)	UG/L	10		U		10
MW-44	1,1,1-Trichloroethane	UG/L	10		·U		10
MW-44	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-44	1,1,2-Trichloroethane	UG/L	10		U		10
MW-44	1,1-Dichloroethane	UG/L	10		U		10
MW-44	1,1-Dichloroethene	UG/L	10		U		10
MW-44	1,2-Dichloroethane	UG/L	10		U		10
MW-44	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-44	1,2-Dichloropropane	UG/L	10		U		10
MW-44	2-Butanone	UG/L	10		U		10
MW-44	2-Hexanone	UG/L	10		U		10
MW-44	4-Methyl-2-pentanone	UG/L	10		U		10
MW-44	Acetone	UG/L	10	6	JB	J	10
MW-44	Benzene	UG/L	10	·	U		10
MW-44	Bromodichloromethane	UG/L	10		U		10
MW-44	Bromoform	UG/L	10		U		10
MW-44	Bromomethane	UG/L	10		U		10
MW-44	Carbon disulfide	UG/L	10	<del></del> -	U		10
MW-44	Carbon Tetrachloride	UG/L	10		U		10
MW-44_	Chlorobenzene	UG/L	10		U		10
MW-44	Chloroethane	UG/L	10	<u> </u>	U		.10
_MW-44	Chloroform	UG/L	10	·	U		10
MW-44	Chloromethane	UG/L	10		U		10
MW-44	cis-1,3-Dichloropropene	UG/L	10		U		10 .
MW-44	Dibromochloromethane	UG/L	10		U		10
MW-44	Ethyl Benzene	UG/L	10		U		10
MW-44	Methylene chloride	UG/L	10	_2	J	J	10
MW-44	Styrene	UG/L	10		U		10
MW-44	Tetrachloroethene	UG/L	10		U		10
MW-44	Toluene	UG/L	10		U		10
MW-44	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-44	Trichloroethene	UG/L	10		U		10
MW-44	Vinyl chloride	UG/L	10		U		10
MW-44	Xylenes (total)	UG/L	10		U		10
MW-45	1,1,1-Trichloroethane	UG/L	80		U		50
MW-45	1,1,2,2-Tetrachloroethane	UG/L	80		U		50
MW-45	1,1,2-Trichloroethane	UG/L	80		U		50
MW-45	1,1-Dichloroethane	UG/L	80		U		50
MW-45	1,1-Dichloroethene	UG/L	80		U		50
MW-45	1,2-Dichloroethane	UG/L	80		U		50

BOLD = Exceedance

NA = Not Applicable

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
		ļ	during Baseline	Result	LQ	DQ	Detect Limit
MW-45	1,2-Dichloroethene (total)	UG/L	80		U		50
MW-45	1,2-Dichloropropane	UG/L	80		U		50
MW-45	2-Butanone	UG/L	120		U	UJ	50
MW-45	2-Hexanone	UG/L	120		U	UJ	50
MW-45	4-Methyl-2-pentanone	UG/L	120		U.	UJ	50
MW-45	Acetone	UG/L	170		U		. 50
MW-45	Benzene	UG/L	1,045	360			50
MW-45	Bromodichloromethane	UG/L	80		U		50
MW-45	Bromoform	UG/L	80 ·		U		50
MW-45	Bromomethane	UG/L	80		U		- 50
MW-45	Carbon disulfide	UG/L	80		U		50
MW-45	Carbon Tetrachloride	UG/L	80		U		50
MW-45	Chlorobenzene	UG/L	80	17	J		50
MW-45	Chloroethane	UG/L	215	38	J	<u> </u>	50
MW-45	Chloroform	UG/L	80		U		50
MW-45	Chloromethane	UG/L	80		U	<u> </u>	50
MW-45	cis-1,3-Dichloropropene	UG/L	80		U U		50
MW-45	Dibromochloromethane	UG/L	80		U	ļ <u> </u>	50
MW-45	Ethyl Benzene	UG/L	80		U_	ļ	50
MW-45	Methylene chloride	UG/L	80		U		50
MW-45	Styrene	UG/L	80		U		50
MW-45	Tetrachloroethene	UG/L	80		U	<u> </u>	50
MW-45	Toluene	UG/L	80		U		50
MW-45	trans-1,3-Dichloropropene	UG/L	80		U	<u> </u>	50
MW-45	Trichloroethene	UG/L	80		U	<u> </u>	50
MW-45	Vinyl chloride	UG/L	80		U	<u> </u>	50
MW-45	Xylenes (total)	00/12	280	16	J	ļ <u>.</u>	50
MW-46	1,1,1-Trichloroethane	UG/L	10		U.		10
MW-46	1,1,2,2-Tetrachloroethane	UG/L	10		U	<u> </u>	10
MW-46	1,1,2-Trichloroethane	UG/L	10		U		10
MW-46	1,1-Dichloroethane	UG/L	10		U	ļ	10
MW-46	1,1-Dichloroethene	UG/L	10		U	ļ	10
MW-46	1,2-Dichloroethane	UG/L	10	·	U		10
MW-46	1,2-Dichloroethene (total)	UG/L	10		U	ļ	10
MW-46	1,2-Dichloropropane	UG/L	10		U	ļ	10
-MW-46	2-Butanone	UG/L	10		U	ļ	10
MW-46	2-Hexanone	UG/L	10		U	<u> </u>	10
MW-46	4-Methyl-2-pentanone	UG/L	10		U		10
MW-46	Acetone	UG/L	10		U	<u> </u>	10
MW-46	Benzene	UG/L	10	<del></del>	U	<b></b>	10
<u>MW-46</u>	Bromodichloromethane	UG/L	10		U	<del> </del>	10
MW-46	Bromoform	UG/L	10		U	<u> </u>	10
MW-46	Bromomethane	UG/L	10		U		10
MW-46	Carbon disulfide	UG/L	10		U	ļ	10
MW-46	Carbon Tetrachloride	UG/L	10	·	U		10
MW-46	Chlorobenzene	UG/L	10	·	U	1	10



# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-46	Chloroethane	UG/L	10		U		10
MW-46	Chloroform	UG/L	10		U		10
MW-46	Chloromethane	UG/L	10		U		10
MW-46	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-46	Dibromochloromethane	UG/L	10		U		10
MW-46	Ethyl Benzene	UG/L	10	_	U		10
MW-46	Methylene chloride	UG/L	10	3	J	J	10
MW-46	Styrene	UG/L	10		U		10
MW-46	Tetrachloroethene	UG/L	10	-	U		10
_ MW-46	Toluene	UG/L	10		U		10
MW-46	trans-1,3-Dichloropropene	UG/L	10		U	,	10
MW-46	Trichloroethene	UG/L	10		U		10
MW-46	Vinyl chloride	UG/L	10		U		10
MW-46	Xylenes (total)	UG/L	10		U		10
MW-47	1,1,1-Trichloroethane	UG/L	10		U		10
MW-47	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-47	1,1,2-Trichloroethane	UG/L	10		U		10
MW-47	1,1-Dichloroethane	UG/L	10		U		10
MW-47	1,1-Dichloroethene	UG/L	10		U		10
MW-47	1,2-Dichloroethane	UG/L	10		U		10
MW-47	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-47	1,2-Dichloropropane	UG/L	10	:.	U		10
MW-47	2-Butanone	UG/L	10		U		10
MW-47	2-Hexanone	UG/L	10		. U		10
MW-47	4-Methyl-2-pentanone	UG/L	10		U		10
MW-47	Acetone	UG/L	10		U		10
MW-47	Benzene	UG/L	10		U		10
MW-47	Bromodichloromethane	UG/L	10		U		10
MW-47	Bromoform	UG/L	10		U		10
_MW-47	Bromomethane	UG/L	10		U		10
MW-47	Carbon disulfide	UG/L	10	· · · · · · · · · · · · · · · · · · ·	U		10
MW-47	Carbon Tetrachloride	UG/L	10		U		10
MW-47	Chlorobenzene	UG/L	10		U		10
MW-47	Chloroethane	UG/L	10		U		10
MW-47	Chloroform	UG/L	10		U		10
MW-47	Chloromethane	UG/L	10		U		10
MW-47	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-47	Dibromochloromethane	UG/L	10		U		10
MW-47	Ethyl Benzene	UG/L	10		U		10
MW-47	Methylene chloride	UG/L	10	2	J	J	10
MW-47	Styrene	UG/L	10		U		10
MW-47	Tetrachloroethene	UG/L	10		U		10
MW-47	Toluene	UG/L	10		U		10
MW-47	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-47	Trichloroethene	UG/L	10		U		10
MW-47	Vinyl chloride	UG/L	10		U	T	10

BOLD = Exceedance

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-47	Xylenes (total)	UG/L	10		U		10
MW-48	1,1,1-Trichloroethane	UG/L	500		U		500
MW-48	1,1,2,2-Tetrachloroethane	UG/L	500		U		500
MW-48	1,1,2-Trichloroethane	UG/L	500		U		500
MW-48	1,1-Dichloroethane	UG/L	500		: U		500
MW-48	1,1-Dichloroethene	UG/L	: 500	· ·	U		500
MW-48	1,2-Dichloroethane	UG/L	500		U		500
MW-48	1,2-Dichloroethene (total)	UG/L	500		U		500
MW-48	1,2-Dichloropropane	UG/L	500		U		500
MW-48	2-Butanone	UG/L	2,500		U		500
MW-48	2-Hexanone	UG/L	2,500	57	DJB	J	500
MW-48	4-Methyl-2-pentanone	UG/L	2,500		U		500
MW-48	Acetone	UG/L	2,500		U		500
MW-48	Benzene	UG/L	9,500	5,700	D		500
MW-48	Bromodichloromethane	UG/L	500		U		500
MW-48	Bromoform	UG/L	500	-	U		500
MW-48	Bromomethane	UG/L	500		U		500
MW-48	Carbon disulfide	UG/L	500		U.		500
MW-48	Carbon Tetrachloride	UG/L	500		U		500
MW-48	Chlorobenzene	UG/L	500		· U		500
MW-48	Chloroethane	UG/L	1,000	290	DJ		500
MW-48	Chloroform	UG/L	500		U		500
MW-48	Chloromethane	UG/L	500		U		500
MW-48	cis-1,3-Dichloropropene	UG/L	500		U		500
MW-48	Dibromochloromethane	UG/L	500		U		500
MW-48	Ethyl Benzene	UG/L	500		U		500
MW-48	Methylene chloride	UG/L	500		U	· J	500
MW-48	Styrene	UG/L	500		U		500
MW-48	Tetrachloroethene	UG/L	500		U		500
MW-48	Toluene	UG/L	500		U		500
MW-48	trans-1,3-Dichloropropene	UG/L	500		U		500
MW-48	Trichloroethene	UG/L	500		U		500
MW-48	Vinyl chloride	UG/L	500		U		500
MW-48	Xylenes (total)	UG/L	500		U		500
MW-49	1,1,1-Trichloroethane	UG/L	500		U	UJ	500
MW-49	1,1,2,2-Tetrachloroethane	UG/L	500		U	UJ	500
MW-49	1,1,2-Trichloroethane	UG/L	500		U	UJ	500
MW-49	1,1-Dichloroethane	UG/L	500		U	UJ	500
MW-49	1,1-Dichloroethene	UG/L	500		U	UJ	500
MW-49	1,2-Dichloroethane	UG/L	500		U	UJ	500
MW-49	1,2-Dichloroethene (total)	UG/L	500	2	U	J	500
MW-49	1,2-Dichloropropane	UG/L	500		U	UJ	500
MW-49	2-Butanone	UG/L	2,500	1	U	JB	500
MW-49	2-Hexanone	UG/L	2,500		U	UJ	500
MW-49	4-Methyl-2-pentanone	UG/L	2,500		U	UJ	500
MW-49	Acetone	UG/L	2,500	9	U	JB	500



#### **American Chemical Services NPL Site** Griffith, Indiana

Well	Analyte	Units	Highest Detect	Current Event					
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>		
MW-49	Benzene	UG/L	6,750	2,600	D	JD	500		
MW-49	Bromodichloromethane	UG/L	500		U	UJ	500		
MW-49	Bromoform	UG/L	500		U	UJ	500		
MW-49	Bromomethane	UG/L	500		U	UJ	500		
MW-49	Carbon disulfide	UG/L	500		U	UJ	500		
MW-49	Carbon Tetrachloride	UG/L	500		U	UJ	500		
MW-49	Chlorobenzene	UG/L	. 500		U	UJ	500		
MW-49	Chloroethane	UG/L	715	220	DJ	DJ	500		
MW-49	Chloroform	UG/L	500	74.	U	UJ	500		
MW-49	Chloromethane	. UG/L	500	-	U	UJ	500		
MW-49	cis-1,3-Dichloropropene	UG/L	500		U	UJ	500		
MW-49	Dibromochloromethane	UG/L	500		U	UJ	500		
MW-49	Ethyl Benzene	UG/L	500		U	UJ	500_		
MW-49	Methylene chloride	UG/L	450	2	U	J	500		
MW-49	Styrene	UG/L	500		U	UJ	500		
MW-49	Tetrachloroethene	UG/L	500		U	UJ	500		
MW-49	Toluene	UG/L	500	11	U	J	500		
MW-49	trans-1,3-Dichloropropene	UG/L_	500		U	UJ	500		
MW-49	Trichloroethene	UG/L	500		U	UJ	500		
MW-49	Vinyl chloride	UG/L	500		U .:	UJ	500		
MW-49	Xylenes (total)	UG/L	500		U	UJ	500		
MW-50	1,1,1-Trichloroethane	UG/L	10		U		10		
MW-50	1,1,2,2-Tetrachloroethane	UG/L	10		U		10		
_MW-50	1,1,2-Trichloroethane	UG/L	10	<u> </u>	U		10		
MW-50	1,1-Dichloroethane	UG/L	10		U		10		
MW-50	1,1-Dichloroethene	UG/L	10		U		10		
MW-50	1,2-Dichloroethane	UG/L	10		U		10		
MW-50	1,2-Dichloroethene (total)	UG/L	10		U		10		
MW-50	1,2-Dichloropropane	UG/L	10		U		10		
MW-50	2-Butanone	UG/L	10		U	UJ	10		
MW-50	2-Hexanone	UG/L	10		U	ÜJ	10		
MW-50	4-Methyl-2-pentanone	UG/L	10		U	UJ	10		
MW-50	Acetone	UG/L	10	2	JB	JB	10		
MW-50	Benzene	UG/L	10		U		10		
MW-50	Bromodichloromethane	UG/L	10		U		10		
MW-50	Bromoform	UG/L_	10		U		10		
MW-50	Bromomethane	UG/L	10		U		10		
MW-50	Carbon disulfide	UG/L	10		U		10		
MW-50	Carbon Tetrachloride	UG/L	10		U		10		
MW-50	Chlorobenzene	UG/L	10		U		10		
MW-50	Chloroethane	UG/L	10		U		10		
MW-50	Chloroform	UG/L	10		U		10		
MW-50	Chloromethane	UG/L	10		U		10		
MW-50	cis-1,3-Dichloropropene	UG/L	10		U		10		
MW-50	Dibromochloromethane	UG/L	10		U		10		
MW-50	Ethyl Benzene	UG/L	10		U		10		

**BOLD** = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
		_	during Baseline	Result	LQ	DQ	Detect Limit
MW-50	Methylene chloride	UG/L	10	3	J		10
MW-50	Styrene	UG/L	10		U	Ĭ	10
MW-50	Tetrachloroethene	UG/L	10		U		10
MW-50	Toluene	UG/L	10		U		10
MW-50	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-50	Trichloroethene	UG/L	10		U		10
MW-50	Vinyl chloride	UG/L	10		U		10
MW-50	Xylenes (total)	UG/L	10		U		10
MW-51	1,1,1-Trichloroethane	UG/L	100		U		10
MW-51	1,1,2,2-Tetrachloroethane	UG/L	100		U		10
MW-51	1,1,2-Trichloroethane	UG/L	100		U		10
MW-51	1,1-Dichloroethane	UG/L	100		U		10
MW-51	1,1-Dichloroethene	UG/L	100		U		10
MW-51	1,2-Dichloroethane	UG/L	100		U		10
MW-51	1,2-Dichloroethene (total)	UG/L	100		U		10
MW-51	1,2-Dichloropropane	UG/L	100		U		10
MW-51	2-Butanone	UG/L	100		U		10
MW-51	2-Hexanone	UG/L	100		U		10
MW-51	4-Methyl-2-pentanone	UG/L	100		ับ		10
MW-51	Acetone	UG/L	100		U.		10
MW-51	Benzene	UG/L	100	·	U		10
MW-51	Bromodichloromethane	UG/L	100		U		10
MW-51	Bromoform	UG/L	100		U		10
MW-51	Bromomethane	UG/L	100		U		10
MW-51	Carbon disulfide	UG/L	100		U	<u> </u>	10
MW-51	Carbon Tetrachloride	UG/L	100		U	<u> </u>	10
MW-51	Chlorobenzene	UG/L	100		Ŭ		10
MW-51	Chloroethane	UG/L	100		U	<u> </u>	10
MW-51	Chloroform	UG/L	100	<del></del>	U	<u> </u>	10
MW-51	Chloromethane	UG/L	100		U	ļ	10
MW-51	cis-1,3-Dichloropropene	UG/L	100		U	<u> </u>	10
MW-51	Dibromochloromethane	UG/L	100		U		10
MW-51	Ethyl Benzene	UG/L	100		U		10
MW-51	Methylene chloride	UG/L	100	8	J	J	10
MW-51	Styrene	UG/L	100		U		10
MW-51	Tetrachloroethene	UG/L	100	·	U		10
MW-51	Toluene	UG/L	100	<u>.</u>	U		10
MW-51	trans-1,3-Dichloropropene	UG/L	100		U		10
MW-51	Trichloroethene	UG/L	100		U		10
MW-51	Vinyl chloride	UG/L	100		U		10
MW-51	Xylenes (total)	UG/L	100		U	<u> </u>	10
MW-52	1,1,1-Trichloroethane	UG/L	100		U	UJ	100
MW-52	1,1,2,2-Tetrachloroethane	UG/L	100		U	UJ	100
MW-52	1,1,2-Trichloroethane	UG/L	100		U	UJ	100
MW-52	1,1-Dichloroethane	UG/L	100		U	UJ	100
MW-52	1,1-Dichloroethene	UG/L	100		U	UJ	100

BOLD; = Exceedance

NA = Not Applicable

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
<u></u>			during Baseline	Result	LQ	DQ	Detect Limit
MW-52	1,2-Dichloroethane	UG/L	100		U	UJ	100
MW-52	1,2-Dichloroethene (total)	UG/L	100		U	UJ	100
MW-52	1,2-Dichloropropane	UG/L	100		U	UJ	100
MW-52	2-Butanone	UG/L	100		U	UJ	100
MW-52	2-Hexanone	UG/L	100		U	UĴ	100
MW-52	4-Methyl-2-pentanone	UG/L	100		· U	UJ	100
MW-52	Acetone	UG/L	100		. n	UJ	100
MW-52	Benzene -	UG/L	100		· U	UJ	100
MW-52	Bromodichloromethane	UG/L	100		U	UJ	100
MW-52	Bromoform	UG/L	100		U	UJ	100
MW-52	Bromomethane	UG/L	100		U	UJ	100
MW-52	Carbon disulfide	UG/L	100		U	UJ	100
MW-52	Carbon Tetrachloride	UG/L	100		U	UJ	100
MW-52	Chlorobenzene	UG/L	_100		U	UJ	100
MW-52	Chloroethane	UG/L	100		U	UJ	100
MW-52	Chloroform	UG/L	100		U	UJ	100
MW-52	Chloromethane	UG/L	100		U	UJ	100
MW-52	cis-1,3-Dichloropropene	UG/L	100		U	UJ	100
MW-52	Dibromochloromethane	UG/L	100		U	UJ	100
MW-52	Ethyl Benzene	UG/L	100		· U	UJ	100
MW-52	Methylene chloride	UG/L	100		· U	UJ	100
MW-52	Styrene	UG/L	100		Ü	UJ	100
MW-52	Tetrachloroethene	UG/L	100		U	UJ	100
MW-52	Toluene	UG/L	100		U	UJ	100
MW-52	trans-1,3-Dichloropropene	UG/L	100		U	UJ	100
MW-52	Trichloroethene	UG/L	100		U	UJ	100
MW-52	Vinyl chloride	UG/L	100		U	UJ	100
MW-52	Xylenes (total)	UG/L	100		U	UJ	100
MW-53	1,1,1-Trichloroethane	UG/L	10 -		U	UJ	_10
MW-53	1,1,2,2-Tetrachloroethane	UG/L	10		U	· UJ	10
MW-53_	1,1,2-Trichloroethane	UG/L	10		U	UJ	_10
MW-53	1,1-Dichloroethane	UG/L	10		U	UJ	10
MW-53	1,1-Dichloroethene	UG/L	10		U	UJ	10
MW-53	1,2-Dichloroethane	UG/L	10		U	UJ	10
MW-53	1,2-Dichloroethene (total)	UG/L	10		U	UJ	10
MW-53	1,2-Dichloropropane	UG/L	10		U	UJ	10
MW-53	2-Butanone	UG/L	10	3	ЛВ	JB	10
MW-53	2-Hexanone	UG/L	10		U	UJ	10
MW-53	4-Methyl-2-pentanone	UG/L	10	3	JВ	JB	10
MW-53	Acetone	UG/L	16	30	В	JB	10
MW-53	Benzene	UG/L	10	4	J.	J	10
MW-53	Bromodichloromethane	UG/L	10		U	UJ	10
MW-53	Bromoform	UG/L	10		U	UJ	10
MW-53	Bromomethane	UG/L	10		U	UJ	10
MW-53	Carbon disulfide	UG/L	10		U	UJ	10
MW-53	Carbon Tetrachloride	UG/L	10	· _	U	UJ	10



#### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-53	Chlorobenzene.	UG/L	10		U	UJ	10
MW-53	Chloroethane	UG/L	10		U	UJ	10
MW-53	Chloroform	UG/L	10		U	UJ	10
MW-53	Chloromethane	UG/L	10		U	UJ	10
MW-53	cis-1,3-Dichloropropene	UG/L	10		U	UJ	10
MW-53	Dibromochloromethane	UG/Ľ	10		U	UJ -	10
MW-53	Ethyl Benzene	UG/L	10		U	UJ	10
MW-53	Methylene chloride	UG/L	10	100		J	10
MW-53	Styrene	UG/L	10		Ų.	UJ	10
MW-53	Tetrachloroethene	UG/L	10		U.	UJ	10
MW-53	Toluene	UG/L	10	1	J	J	10
MW-53	trans-1,3-Dichloropropene	UG/L	10		U	UJ	10
MW-53	Trichloroethene	UG/L	10		U	UJ	10
MW-53	Vinyl chloride	UG/L	10		U	UJ	10
MW-53	Xylenes (total)	UG/L	10		U	UJ	10
MW-54R	1,1,1-Trichloroethane	UG/L	10		U		10
MW-54R	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-54R	1,1,2-Trichloroethane	UG/L	10		U		10
MW-54R	1,1-Dichloroethane	UG/L	10		U		10
MW-54R	1,1-Dichloroethene	UG/L	10		U		10
MW-54R	1,2-Dichloroethane	UG/L	10		U		10
MW-54R	1,2-Dichloroethene (total)	UG/L	10	•	U		10
MW-54R	1,2-Dichloropropane	UG/L	10		U		10
MW-54R	2-Butanone	UG/L	10		U		10
MW-54R	2-Hexanone	UG/L	10		U		10
MW-54R	4-Methyl-2-pentanone	UG/L	10		U		10
MW-54R	Acetone	UG/L	10	6	JB	J	10
MW-54R	Benzene	UG/L	10	1	J		10
MW-54R	Bromodichloromethane	UG/L	10		U		10
MW-54R	Bromoform	UG/L	10		U		10
MW-54R	Bromomethane	UG/L	10		· U		10
MW-54R	Carbon disulfide	UG/L	10		U		10
MW-54R	Carbon Tetrachloride	UG/L	10		U		10
MW-54R	Chlorobenzene	UG/L	10		U.		10
	Chloroethane	UG/L	10		U		10
MW-54R	Chloroform	UG/L	10		U		10
	Chloromethane	UG/L	10		U		10
MW-54R	cis-1,3-Dichloropropene	UG/L	10		U		10
	Dibromochloromethane	UG/L	10		U		10
MW-54R	Ethyl Benzene	UG/L	10		U		10
MW-54R	Methylene chloride	UG/L	10	3	J	J	10
MW-54R	Styrene	UG/L	10		U	1	10
MW-54R	Tetrachloroethene	UG/L	10		U	1	10
MW-54R	Toluene	UG/L	10		U	Ţ	10
MW-54R	trans-1,3-Dichloropropene	UG/L	10		Ü	İ	10
MW-54R	Trichloroethene	UG/L	10		Ü	1	10

BOLD = Exceedance

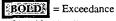
NA = Not Applicable

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-54R	Vinyl chloride	UG/L	10		U	-	10
MW-54R	Xylenes (total)	UG/L	10		U		10
MW-55	1,1,1-Trichloroethane	UG/L	10		U		10
MW-55	1,1,2,2-Tetrachloroethane	UG/L	10		U		10
MW-55	1,1,2-Trichloroethane	UG/L	10		U		10
MW-55	1,1-Dichloroethane	UG/L	10		U		10
MW-55	1,1-Dichloroethene	UG/L	10		U		10
MW-55	1,2-Dichloroethane	UG/L	10		U		10
MW-55	1,2-Dichloroethene (total)	UG/L	10		U		10
MW-55	1,2-Dichloropropane	UG/L	10		U		10
MW-55	2-Butanone	UG/L	10		U		10
MW-55	2-Hexanone	UG/L	10		U	,	10
MW-55	4-Methyl-2-pentanone	UG/L	10		Ü		10
MW-55	Acetone	UG/L	10	3	JB	J	10
MW-55	Benzene	UG/L	10		U		10
MW-55	Bromodichloromethane	UG/L	10		U		10
MW-55	Bromoform	UG/L	10		U		10
MW-55	Bromomethane	UG/L	10		U		10
MW-55	Carbon disulfide	UG/L	10		U		10
MW-55	Carbon Tetrachloride	UG/L	10		U		10
MW-55	Chlorobenzene	UG/L	10		U		10
MW-55	Chloroethane	UG/L	10		U		10
MW-55	Chloroform	UG/L	10		U		10
MW-55	Chloromethane	UG/L	10		U		10
MW-55	cis-1,3-Dichloropropene	UG/L	10		U		10
MW-55	Dibromochloromethane	UG/L	10		U		10
MW-55	Ethyl Benzene	UG/L	10		U		10
MW-55	Methylene chloride	UG/L	10	. 3	J	J	10
MW-55	Styrene	UG/L	10		U		10
MW-55	Tetrachloroethene	UG/L	10		U		10
MW-55	Toluene	UG/L	10		U		10
MW-55	trans-1,3-Dichloropropene	UG/L	10		U		10
MW-55	Trichloroethene	UG/L	10		U		10
MW-55	Vinyl chloride	UG/L	10		U		10
MW-55	Xylenes (total)	UG/L	10		U		10

ATMW-4D   1,2,4-Trichlorobenzene   UG/L   10   U   U   NA	Well	Analyte	Units	Highest Detect		Current	Event	
ATMW-4D   1,2-Dichlorobenzene				during Baseline	Result	LQ	DQ	Detect Limit
ATMW-4D   1,3-Dichlorobenzene   UG/L   10   U   UJ   NA   ATMW-4D   1,4-Dichlorobenzene   UG/L   10   U   UJ   NA   ATMW-4D   2,4-Dichlorophenol   UG/L   10   U   UJ   NA   ATMW-4D   2,4,5-Trichlorophenol   UG/L   10   U   UJ   NA   ATMW-4D   2,4,5-Trichlorophenol   UG/L   10   U   UJ   NA   ATMW-4D   2,4-Diritorophenol   UG/L   26   U   UJ   NA   ATMW-4D   3,4-Diritorophenol   UG/L   26   U   UJ   NA   ATMW-4D   3,4-Diritorophenol   UG/L   10   U   UJ   NA   ATMW-4D   4,6-Diritoro-2-methylphenol   UG/L   10   U   UJ   NA   ATMW-4D   4,6-Diritoro-2-methylphenol   UG/L   10   U   UJ   NA   ATMW-4D   4,6-Diritoro-2-methylphenol   UG/L   10   U   UJ   NA   ATMW-4D   4,6-Diritoro-1-methylphenol   UG/L   10   U   UJ   NA   ATMW-4D   4,6-Diritoro-1-m	ATMW-4D	1,2,4-Trichlorobenzene	UG/L	:	10	U	UJ	NA NA
ATMW-4D   1,4-Dichlorobenzene   UG/L   10   U   U   NA   ATMW-4D   2,2-0 xybis(1-Chloropropane)   UG/L   10   U   U   NA   ATMW-4D   2,4-5-Trichlorophenol   UG/L   10   U   U   NA   ATMW-4D   2,4-5-Trichlorophenol   UG/L   10   U   U   NA   ATMW-4D   2,4-5-Trichlorophenol   UG/L   10   U   U   NA   ATMW-4D   2,4-Dichlorophenol   UG/L   10   U   U   NA   ATMW-4D   2,4-Dichlorophenol   UG/L   10   U   U   NA   ATMW-4D   2,4-Dichlorophenol   UG/L   10   U   U   NA   ATMW-4D   2,4-Dinitrophenol   UG/L   10   U   U   NA   ATMW-4D   2,6-Dinitrophenol   UG/L   10   U   U   NA   ATMW-4D   2,6-Dinitrophenol   UG/L   10   U   U   NA   ATMW-4D   2-Chlorophenol   UG/L   10   U   U   NA   ATMW-4D   2-Chlorophenol   UG/L   10   U   U   NA   ATMW-4D   2-Methylphenol   UG/L   10   U   U   NA   ATMW-4D   2-Methylphenol   UG/L   10   U   U   NA   ATMW-4D   2-Nethylphenol   UG/L   10   U   U   NA   ATMW-4D   2-Nitrophenol   UG/L   26   U   U   NA   ATMW-4D   2-Nitrophenol   UG/L   26   U   U   NA   ATMW-4D   3,3-Dichlorobenzidine   UG/L   26   U   U   NA   ATMW-4D   3,3-Dichlorobenzidine   UG/L   26   U   U   NA   ATMW-4D   3,3-Dichlorobenzidine   UG/L   26   U   U   NA   ATMW-4D   3-Bromophenyl-phenylether   UG/L   26   U   U   NA   ATMW-4D   3-Bromophenyl-phenylether   UG/L   26   U   U   NA   ATMW-4D   3-Bromophenyl-phenylether   UG/L   26   U   U   NA   ATMW-4D   3-Bromophenyl-phenylether   UG/L   10   U   U   NA   ATMW-4D   3-Bromophenyl-phenylether   UG/L   10   U   U   NA   ATMW-4D   3-Bromophenyl-phenylether   UG/L   10   U   U   NA   ATMW-4D   3-Bromophenyl-phenylether   UG/L   10   U   U   NA   ATMW-4D   3-Bromophenyl-phenylether   UG/L   10   U   U   NA   ATMW-4D   3-Bromophenyl-phenylether   UG/L   10   U   U   NA   ATMW-4D   3-Bromophenyl-phenylether   UG/L   10   U   U   NA   ATMW-4D   3-Bromophenyl-phenylether   UG/L   10   U   U   NA   ATMW-4D   3-Br	ATMW-4D	1,2-Dichlorobenzene	UG/L		10	U	UJ	NA
ATMW-4D   2,2-oxybis(1-Chloropropane)   UG/L   10   U   U   NA   ATMW-4D   2,4,5-Trichlorophenol   UG/L   10   U   U   NA   ATMW-4D   2,4,5-Trichlorophenol   UG/L   10   U   U   NA   ATMW-4D   2,4-Dichlorophenol   UG/L   10   U   U   NA   ATMW-4D   2,4-Dinitrophenol   UG/L   10   U   U   NA   ATMW-4D   2,4-Dinitrotoluene   UG/L   10   U   U   NA   ATMW-4D   2,4-Dinitrotoluene   UG/L   10   U   U   NA   ATMW-4D   2,6-Dinitrotoluene   UG/L   10   U   U   NA   ATMW-4D   2-Chloronaphthalene   UG/L   10   U   U   NA   ATMW-4D   2-Chloronaphthalene   UG/L   10   U   U   NA   ATMW-4D   2-Chlorophenol   UG/L   10   U   U   NA   ATMW-4D   2-Nethylaphthalene   UG/L   10   U   U   NA   ATMW-4D   2-Nethylaphthalene   UG/L   10   U   U   NA   ATMW-4D   2-Nethylaphthalene   UG/L   10   U   U   NA   ATMW-4D   2-Nitrophenol   UG/L   10   U   U   NA   ATMW-4D   2-Nitrophenol   UG/L   10   U   U   NA   ATMW-4D   2-Nitrophenol   UG/L   10   U   U   NA   ATMW-4D   3,3-Dichlorobenzidine   UG/L   10   U   U   NA   ATMW-4D   3-Nitrophenol   UG/L   26   U   U   NA   ATMW-4D   4,6-Dinitro-2-methylphenol   UG/L   26   U   U   NA   ATMW-4D   4-Chloro-3-methylphenol   UG/L   26   U   U   NA   ATMW-4D   4-Chloronaline   UG/L   10   U   U   NA   ATMW-4D   4-Chloronaline   UG/L   10   U   U   NA   ATMW-4D   4-Chloronaline   UG/L   10   U   U   NA   ATMW-4D   4-Chloronaline   UG/L   10   U   U   NA   ATMW-4D   4-Chloronaline   UG/L   10   U   U   NA   ATMW-4D   4-Chloronaline   UG/L   10   U   U   NA   ATMW-4D   4-Chloronaline   UG/L   10   U   U   NA   ATMW-4D   4-Chloronaline   UG/L   10   U   U   NA   ATMW-4D   4-Nitrophenol   UG/L   26   U   U   NA   ATMW-4D   4-Nitrophenol   UG/L   26   U   U   NA   ATMW-4D   4-Nitrophenol   UG/L   10   U   U   NA   ATMW-4D   4-Nitrophenol   UG/L   10   U   U   NA   ATMW-4D   4-Nitrophenol   UG/L   10   U   U   NA   ATMW-4D   4-Nitrophenol	ATMW-4D	1,3-Dichlorobenzene	UG/L		10	U	UJ	NA
ATMW-4D   2.4,5-Trichlorophenol   UG/L   10   U UJ NA   ATMW-4D   2.4,6-Trichlorophenol   UG/L   10   U UJ NA   ATMW-4D   2.4-Dirichlorophenol   UG/L   26   U UJ NA   ATMW-4D   2.4-Dirichlorophenol   UG/L   10   U UJ NA   ATMW-4D   2.4-Dirichlorophenol   UG/L   10   U UJ NA   ATMW-4D   2.4-Dirichlorophenol   UG/L   10   U UJ NA   ATMW-4D   2.6-Dirichlorophenol   UG/L   10   U UJ NA   ATMW-4D   2.6-Dirichlorophenol   UG/L   10   U UJ NA   ATMW-4D   2-Chlorophenol   UG/L   10   U UJ NA   ATMW-4D   2-Chlorophenol   UG/L   10   U UJ NA   ATMW-4D   2-Methylnaphthalene   UG/L   10   U UJ NA   ATMW-4D   2-Methylnaphthalene   UG/L   10   U UJ NA   ATMW-4D   2-Methylnaphthalene   UG/L   26   U UJ NA   ATMW-4D   2-Nitrophenol   UG/L   26   U UJ NA   ATMW-4D   2-Nitrophenol   UG/L   10   U UJ NA   ATMW-4D   3-Nitrophenol   UG/L   10   U UJ NA   ATMW-4D   3-Nitrophenol   UG/L   10   U UJ NA   ATMW-4D   3-Nitrophenol   UG/L   26   U UJ NA   ATMW-4D   4-Dirithro-2-methylphenol   UG/L   26   U UJ NA   ATMW-4D   4-Dirithro-2-methylphenol   UG/L   10   U UJ NA   ATMW-4D   4-Chloro-3-methylphenol   UG/L   10   U UJ NA   ATMW-4D   4-Chlorophenyl-p	ATMW-4D	1,4-Dichlorobenzene	UG/L		10	U	UJ	NA
ATMW-4D 2,4,5-Trichlorophenol         UGL         26         U         UJ         NA           ATMW-4D 2,4-Drichlorophenol         UGL         10         U         UJ         NA           ATMW-4D 2,4-Drichlorophenol         UGL         10         U         UJ         NA           ATMW-4D 2,4-Dinitrotoluene         UGL         10         U         UJ         NA           ATMW-4D 2,4-Dinitrotoluene         UGL         10         U         UJ         NA           ATMW-4D 2,4-Dinitrotoluene         UGL         10         U         UJ         NA           ATMW-4D 2,6-Dinitrotoluene         UGL         10         U         UJ         NA           ATMW-4D 2-Methylphenol         UGL         10         U         UJ         NA           ATMW-4D 2-Nitrophenol         UGL         10 <td>ATMW-4D</td> <td>2,2'-oxybis(1-Chloropropane)</td> <td>UG/L</td> <td></td> <td>10</td> <td>Ų</td> <td>UJ</td> <td>NA</td>	ATMW-4D	2,2'-oxybis(1-Chloropropane)	UG/L		10	Ų	UJ	NA
ATMW-4D 2,4-6-brichlorophenol         UGL         10         U         UJ         NA           ATMW-4D 2,4-Dimethylphenol         UGL         10         U         UJ         NA           ATMW-4D 2,4-Dimitrophenol         UGL         10         U         UJ         NA           ATMW-4D 2,4-Dimitrophenol         UGL         10         U         UJ         NA           ATMW-4D 2,6-Dimitrobluene         UGL         10         U         UJ         NA           ATMW-4D 2-Methylphenol         UGL         10         U         UJ         NA           ATMW-4D 2-Methylphenol         UGL         26         U         UJ         NA           ATMW-4D 2-Mitrophenol         UGL         26         U         UJ         NA           ATMW-4D 2-Nitrophenol         UGL         10         U         UJ         NA           ATMW-4D 3-Nitrophenol         UGL         26         U			UG/L		. 26	U	UJ	NA
ATMW-4D         2,4-Dimethylphenol         UG/L         10         U         UJ         NA           ATMW-4D         2,4-Dimitrophenol         UG/L         26         U         UJ         NA           ATMW-4D         2,4-Dimitrotoluene         UG/L         10         U         UJ         NA           ATMW-4D         2,6-Dinitrotoluene         UG/L         10         U         UJ         NA           ATMW-4D         2-Chloropaphthalene         UG/L         10         U         UJ         NA           ATMW-4D         2-Chlorophenol         UG/L         10         U         UJ         NA           ATMW-4D         2-Methylphenol         UG/L         10         U         UJ         NA           ATMW-4D         2-Nitrophenol         UG/L         26         U         UJ         NA           ATMW-4D         2-Nitrophenol         UG/L         26         U         UJ         NA           ATMW-4D         3-3-Dichlorobenzidine         UG/L         10         U         UJ         NA           ATMW-4D         4-6-Dinitro-2-methylphenol         UG/L         26         U         UJ         NA           ATMW-4D         4-Bromophenyl-			UG/L		10	U	UJ	NA
ATMW-4D (2,4-Dinitrophenol         UG/L         10         U         UJ         NA           ATMW-4D (2,4-Dinitrophenol         UG/L         10         U         UJ         NA           ATMW-4D (2,4-Dinitrotoluene         UG/L         10         U         UJ         NA           ATMW-4D (2,6-Dinitrotoluene         UG/L         10         U         UJ         NA           ATMW-4D (2-Chlorophenol         UG/L         10         U         UJ         NA           ATMW-4D (2-Chlorophenol         UG/L         10         U         UJ         NA           ATMW-4D (2-Methylphenol         UG/L         10         U         UJ         NA           ATMW-4D (2-Nitrophenol         UG/L         26         U         UJ         NA           ATMW-4D (2-Nitrophenol         UG/L         26         U         UJ         NA           ATMW-4D (2-Nitrophenol         UG/L         26         U         UJ         NA           ATMW-4D (2-Nitrophenol         UG/L         10         U         UJ         NA           ATMW-4D (2-Nitrophenol         UG/L         10         U         UJ         NA           ATMW-4D (3-Nitrophenol         UG/L         10	ATMW-4D	2,4-Dichlorophenol	UG/L		10 .	U	UJ	NA
ATMW-4D 2,4-Dinitrotoluene         UG/L         10         U         UJ         NA           ATMW-4D 2,6-Dinitrotoluene         UG/L         10         U         UJ         NA           ATMW-4D 2-Chloroaphthalene         UG/L         10         U         UJ         NA           ATMW-4D 2-Chlorophenol         UG/L         10         U         UJ         NA           ATMW-4D 2-Methylphenol         UG/L         10         U         UJ         NA           ATMW-4D 2-Methylphenol         UG/L         10         U         UJ         NA           ATMW-4D 2-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D 2-Nitrophenol         UG/L         10         U         UJ         NA           ATMW-4D 3-Nitroaniline         UG/L         10         U         UJ         NA           ATMW-4D 4-6-Dinitro-2-methylphenol         UG/L         26         U         UJ         NA           ATMW-4D 4-Bromopheny-phephylether         UG/L         10         U         UJ         NA           ATMW-4D 4-Chloroaniline         UG/L         10         U         UJ         NA           ATMW-4D 4-Chloropheny-phenylether         UG/L			UG/L	· ·	10 "	U	UJ	NA
ATMW-4D 2,4-Dinitrotoluene         UG/L         10         U         UJ         NA           ATMW-4D 2,6-Dinitrotoluene         UG/L         10         U         UJ         NA           ATMW-4D 2-Chloroaphthalene         UG/L         10         U         UJ         NA           ATMW-4D 2-Chlorophenol         UG/L         10         U         UJ         NA           ATMW-4D 2-Methylphenol         UG/L         10         U         UJ         NA           ATMW-4D 2-Methylphenol         UG/L         10         U         UJ         NA           ATMW-4D 2-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D 2-Nitrophenol         UG/L         10         U         UJ         NA           ATMW-4D 3-Nitroaniline         UG/L         10         U         UJ         NA           ATMW-4D 4-6-Dinitro-2-methylphenol         UG/L         26         U         UJ         NA           ATMW-4D 4-Bromopheny-phephylether         UG/L         10         U         UJ         NA           ATMW-4D 4-Chloroaniline         UG/L         10         U         UJ         NA           ATMW-4D 4-Chloropheny-phenylether         UG/L	ATMW-4D	2,4-Dinitrophenol	UG/L	-	26	U	ÜJ	NA
ATMW-4D 2,6-Dinitrotoluene         UG/L         10         U         UJ         NA           ATMW-4D 2-Chloropaphthalene         UG/L         10         U         UJ         NA           ATMW-4D 2-Chlorophenol         UG/L         10         U         UJ         NA           ATMW-4D 2-Methylphenol         UG/L         10         U         UJ         NA           ATMW-4D 2-Methylphenol         UG/L         10         U         UJ         NA           ATMW-4D 2-Nitropaniline         UG/L         26         U         UJ         NA           ATMW-4D 2-Nitrophenol         UG/L         10         U         UJ         NA           ATMW-4D 3-Dichlorobenzidine         UG/L         10         U         UJ         NA           ATMW-4D 3-Shitroaniline         UG/L         26         U         UJ         NA           ATMW-4D 4-S-Dinitro-2-methylphenol         UG/L         26         U         UJ         NA           ATMW-4D 4-Shorophenyl-phenylether         UG/L         10         U         UJ         NA           ATMW-4D 4-Chlorophenyl-phenylether         UG/L         10         U         UJ         NA           ATMW-4D 4-Chlorophenyl-phenylether         U			UG/L		10	·U	UJ	NA
ATMW-4D         2-Chlorophenol         UG/L         10         U         UJ         NA           ATMW-4D         2-Chlorophenol         UG/L         10         U         UJ         NA           ATMW-4D         2-Methylpaphenol         UG/L         10         U         UJ         NA           ATMW-4D         2-Methylphenol         UG/L         10         U         UJ         NA           ATMW-4D         2-Nitrophenol         UG/L         26         U         UJ         NA           ATMW-4D         3-Nitroaniline         UG/L         10         U         UJ         NA           ATMW-4D         3-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D         4-Bromophenyl-phenylether         UG/L         10         U         UJ         NA           ATMW-4D         4-Bromophenyl-phenylether         UG/L         10         U         UJ         NA           ATMW-4D         4-Chloroaniline         UG/L         10         U         UJ         NA           ATMW-4D         4-Chlorophenyl-phenyl ether         UG/L         10         U         UJ         NA           ATMW-4D         4-Methylphenol			UG/L		10	U	UJ	NA
ATMW-4D 2-Chlorophenol         UG/L         10         U         U         NA           ATMW-4D 2-Methylaphthalene         UG/L         10         U         UJ         NA           ATMW-4D 2-Methylaphenol         UG/L         10         U         UJ         NA           ATMW-4D 2-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D 2-Nitrophenol         UG/L         10         U         UJ         NA           ATMW-4D 3-Nitroaniline         UG/L         10         U         UJ         NA           ATMW-4D 3-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D 4-G-brointro-2-methylphenol         UG/L         26         U         UJ         NA           ATMW-4D 4-Chloro-3-methylphenol         UG/L         10         U         UJ         NA           ATMW-4D 4-Chloro-3-methylphenol         UG/L         10         U         UJ         NA           ATMW-4D 4-Chloropaniline         UG/L         10         U         UJ         NA           ATMW-4D 4-Chloropaniline         UG/L         10         U         UJ         NA           ATMW-4D 4-Nettaplyphenol         UG/L         1	ATMW-4D	2-Chloronaphthalene	UG/L		10	U	UJ	NA
ATMW-4D         2-Methylphenol         UG/L         10         U         UJ         NA           ATMW-4D         2-Nitropailine         UG/L         26         U         UJ         NA           ATMW-4D         2-Nitrophenol         UG/L         10         U         UJ         NA           ATMW-4D         3,3'-Dichlorobenzidine         UG/L         10         U         UJ         NA           ATMW-4D         3-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D         4-G-Dinitro-2-methylphenol         UG/L         26         U         UJ         NA           ATMW-4D         4-Bromophenyl-phenylether         UG/L         10         U         UJ         NA           ATMW-4D         4-Chloro-3-methylphenol         UG/L         10         U         UJ         NA           ATMW-4D         4-Chloroaniline         UG/L         10         U         UJ         NA           ATMW-4D         4-Chlorophenyl-phenyl ether         UG/L         10         U         UJ         NA           ATMW-4D         4-Methylphenol         UG/L         10         U         UJ         NA           ATMW-4D <t< td=""><td></td><td></td><td>UG/L</td><td></td><td>10</td><td>U</td><td>UJ</td><td>NA</td></t<>			UG/L		10	U	UJ	NA
ATMW-4D         2-Methylphenol         UG/L         10         U         UJ         NA           ATMW-4D         2-Nitropailine         UG/L         26         U         UJ         NA           ATMW-4D         2-Nitrophenol         UG/L         10         U         UJ         NA           ATMW-4D         3,3'-Dichlorobenzidine         UG/L         10         U         UJ         NA           ATMW-4D         3-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D         4-G-Dinitro-2-methylphenol         UG/L         26         U         UJ         NA           ATMW-4D         4-Bromophenyl-phenylether         UG/L         10         U         UJ         NA           ATMW-4D         4-Chloro-3-methylphenol         UG/L         10         U         UJ         NA           ATMW-4D         4-Chloroaniline         UG/L         10         U         UJ         NA           ATMW-4D         4-Chlorophenyl-phenyl ether         UG/L         10         U         UJ         NA           ATMW-4D         4-Methylphenol         UG/L         10         U         UJ         NA           ATMW-4D <t< td=""><td>ATMW-4D</td><td>2-Methylnaphthalene</td><td>UG/L</td><td></td><td>10</td><td>U</td><td>UJ</td><td>NA</td></t<>	ATMW-4D	2-Methylnaphthalene	UG/L		10	U	UJ	NA
ATMW-4D         2-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D         2-Nitrophenol         UG/L         10         U         UJ         NA           ATMW-4D         3-Si-Dichlorobenzidine         UG/L         10         U         UJ         NA           ATMW-4D         3-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D         4-Bromophenyl-phenylether         UG/L         10         U         UJ         NA           ATMW-4D         4-Chloro-3-methylphenol         UG/L         10         U         UJ         NA           ATMW			UG/L		10	U	UJ	NA
ATMW-4D         2-Nitrophenol         UG/L         10         U         UJ         NA           ATMW-4D         3,3-Dichlorobenzidine         UG/L         10         U         UJ         NA           ATMW-4D         3-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D         4,6-Dinitro-2-methylphenol         UG/L         10         U         UJ         NA           ATMW-4D         4-Bromophenyl-phenylether         UG/L         10         U         UJ         NA           ATMW-4D         4-Chloroaniline         UG/L         10         U         UJ         NA           ATMW-4D         4-Chlorophenyl-phenyl ether         UG/L         10         U         UJ         NA           ATMW-4D         4-Chlorophenyl-phenyl ether         UG/L         10         U         UJ         NA           ATMW-4D         4-Methylphenol         UG/L         10         U         UJ         NA           ATMW-4D         4-Nitrophenol         UG/L         26         U         UJ         NA           ATMW-4D         4-Nitrophenol         UG/L         10         U         UJ         NA           ATMW-4D         <			UG/L		26	U	UJ	NA
ATMW-4D         3-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D         4,6-Dinitro-2-methylphenol         UG/L         26         U         UJ         NA           ATMW-4D         4-Bromophenyl-phenylether         UG/L         10         U         UJ         NA           ATMW-4D         4-Chloro-3-methylphenol         UG/L         10         U         UJ         NA           ATMW-4D         4-Chloroaniline         UG/L         10         U         UJ         NA           ATMW-4D         4-Chlorophenyl-phenyl ether         UG/L         10         U         UJ         NA           ATMW-4D         4-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D         4-Nitrophenol         UG/L         10         U         UJ         NA	ATMW-4D	2-Nitrophenol	UG/L		10	U	UJ	
ATMW-4D         3-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D         4,6-Dinitro-2-methylphenol         UG/L         26         U         UJ         NA           ATMW-4D         4-Bromophenyl-phenylether         UG/L         10         U         UJ         NA           ATMW-4D         4-Chloro-3-methylphenol         UG/L         10         U         UJ         NA           ATMW-4D         4-Chloroaniline         UG/L         10         U         UJ         NA           ATMW-4D         4-Chlorophenyl-phenyl ether         UG/L         10         U         UJ         NA           ATMW-4D         4-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D         4-Nitrophenol         UG/L         10         U         UJ         NA						U	UJ	
ATMW-4D         4,6-Dinitro-2-methylphenol         UG/L         26         U         UJ         NA           ATMW-4D         4-Bromophenyl-phenylether         UG/L         10         U         UJ         NA           ATMW-4D         4-Chloro-3-methylphenol         UG/L         10         U         UJ         NA           ATMW-4D         4-Chlorophenyl-phenyl ether         UG/L         10         U         UJ         NA           ATMW-4D         4-Chlorophenyl-phenyl ether         UG/L         10         U         UJ         NA           ATMW-4D         4-Chlorophenyl-phenyl ether         UG/L         10         U         UJ         NA           ATMW-4D         4-Methylphenol         UG/L         26         U         UJ         NA           ATMW-4D         4-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D         4-Nitrophenol         UG/L         26         U         UJ         NA           ATMW-4D         Acenaphthene         UG/L         10         U         UJ         NA           ATMW-4D         Acenaphthene         UG/L         10         U         UJ         NA           ATMW-4D <td>ATMW-4D</td> <td>3-Nitroaniline</td> <td>UG/L</td> <td></td> <td>26</td> <td>Ü</td> <td>UJ</td> <td></td>	ATMW-4D	3-Nitroaniline	UG/L		26	Ü	UJ	
ATMW-4D         4-Bromophenyl-phenylether         UG/L         10         U         UJ         NA           ATMW-4D         4-Chloro-3-methylphenol         UG/L         10         U         UJ         NA           ATMW-4D         4-Chlorophenyl-phenyl ether         UG/L         26         U         UJ         NA           ATMW-4D         4-Nitrophenol         UG/L         26         U         UJ         NA           ATMW-4D         4-Nitrophenol         UG/L         10         U         UJ         NA           ATMW-4D         Acenaphthlene         UG/L         10         U         UJ         NA           ATMW-4D         Acenaphthlene         UG/L         10         U         UJ         NA	ATMW-4D	4,6-Dinitro-2-methylphenol	UG/L			U	UJ	
ATMW-4D         4-Chloro-3-methylphenol         UG/L         10         U         UJ         NA           ATMW-4D         4-Chloroaniline         UG/L         10         U         UJ         NA           ATMW-4D         4-Chlorophenyl-phenyl ether         UG/L         10         U         UJ         NA           ATMW-4D         4-Methylphenol         UG/L         26         U         UJ         NA           ATMW-4D         4-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D         4-Nitrophenol         UG/L         26         U         UJ         NA           ATMW-4D         4-Nitrophenol         UG/L         26         U         UJ         NA           ATMW-4D         Acenaphthene         UG/L         10         U         UJ         NA           ATMW-4D         Acenaphthylene         UG/L         10         U         UJ         NA           ATMW-4D         Anthracene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(a)pyrene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(b)fluoranthene <t< td=""><td></td><td></td><td></td><td></td><td></td><td>U</td><td>UJ</td><td></td></t<>						U	UJ	
ATMW-4D 4-Chloroaniline         UG/L         10         U         UJ         NA           ATMW-4D 4-Methylphenol         UG/L         10         U         UJ         NA           ATMW-4D 4-Methylphenol         UG/L         10         U         UJ         NA           ATMW-4D 4-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D 4-Nitrophenol         UG/L         26         U         UJ         NA           ATMW-4D 4-Nitrophenol         UG/L         10         U         UJ         NA           ATMW-4D 4-Nitrophenol         UG/L         10         U         UJ         NA           ATMW-4D 4-Nitrophenol         UG/L         10         U         UJ         NA           ATMW-4D Acenaphthene         UG/L         10         U         UJ         NA           ATMW-4D Acenaphthylene         UG/L         10         U         UJ         NA           ATMW-4D Benzo(a)anthracene         UG/L         10         U         UJ         NA           ATMW-4D Benzo(a)anthracene         UG/L         10         U         UJ         NA           ATMW-4D Benzo(bfluoranthene         UG/L         10         U			UG/L		10	U	UJ	NA
ATMW-4D 4-Chlorophenyl-phenyl ether         UG/L         10         U         UJ         NA           ATMW-4D 4-Methylphenol         UG/L         10         U         UJ         NA           ATMW-4D 4-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D 4-Nitrophenol         UG/L         26         U         UJ         NA           ATMW-4D Acenaphthylene         UG/L         10         U         UJ         NA           ATMW-4D Acenaphthylene         UG/L         10         U         UJ         NA           ATMW-4D Anthracene         UG/L         10         U         UJ         NA           ATMW-4D Anthracene         UG/L         10         U         UJ         NA           ATMW-4D Benzo(a)anthracene         UG/L         10         U         UJ         NA           ATMW-4D Benzo(a)pyrene         UG/L         10         U         UJ         NA           ATMW-4D Benzo(b)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D Benzo(g,h,i)perylene         UG/L         10         U         UJ         NA           ATMW-4D Bis(2-chloroethoxy)methane         UG/L         10			UG/L		10	U	UJ	NA
ATMW-4D 4-Methylphenol         UG/L         10         U         UJ         NA           ATMW-4D 4-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D 4-Nitrophenol         UG/L         26         U         UJ         NA           ATMW-4D Acenaphthene         UG/L         10         U         UJ         NA           ATMW-4D Acenaphthylene         UG/L         10         U         UJ         NA           ATMW-4D Anthracene         UG/L         10         U         UJ         NA           ATMW-4D Benzo(a)anthracene         UG/L         10         U         UJ         NA           ATMW-4D Benzo(a)pyrene         UG/L         10         U         UJ         NA           ATMW-4D Benzo(b)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D Benzo(g,h,i)perylene         UG/L         10         U         UJ         NA           ATMW-4D Benzo(k)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D Bis(2-chloroethoxy)methane         UG/L         10         U         UJ         NA           ATMW-4D Bis(2-chloroethyl) ether         UG/L         10 </td <td>ATMW-4D</td> <td>4-Chlorophenyl-phenyl ether</td> <td>UG/L</td> <td></td> <td>10</td> <td>U</td> <td>UJ</td> <td>NA</td>	ATMW-4D	4-Chlorophenyl-phenyl ether	UG/L		10	U	UJ	NA
ATMW-4D 4-Nitroaniline         UG/L         26         U         UJ         NA           ATMW-4D 4-Nitrophenol         UG/L         26         U         UJ         NA           ATMW-4D Acenaphthene         UG/L         10         U         UJ         NA           ATMW-4D Acenaphthylene         UG/L         10         U         UJ         NA           ATMW-4D Anthracene         UG/L         10         U         UJ         NA           ATMW-4D Benzo(a)anthracene         UG/L         10         U         UJ         NA           ATMW-4D Benzo(a)pyrene         UG/L         10         U         UJ         NA           ATMW-4D Benzo(b)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D Benzo(g,h,i)perylene         UG/L         10         U         UJ         NA           ATMW-4D Benzo(k)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D Bis(2-chloroethoxy)methane         UG/L         10         U         UJ         NA           ATMW-4D bis(2-chloroethyl) ether         UG/L         10         U         UJ         NA           ATMW-4D bis(2-ethylhexyl)phthalate         UG/L			UG/L		10	U	UJ	NA
ATMW-4D         Acenaphthene         UG/L         10         U         UJ         NA           ATMW-4D         Acenaphthylene         UG/L         10         U         UJ         NA           ATMW-4D         Anthracene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(a)anthracene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(a)pyrene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(b)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(k)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(k)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-chloroethoxy)methane         UG/L         10         U         UJ         NA           ATMW-4D         bis(2-chloroethyl) ether         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-ethylhexyl)phthalate         UG/L         1         J         J         0.01           ATMW-4D         C			UG/L		26	U	UJ	NA
ATMW-4D         Acenaphthylene         UG/L         10         U         UJ         NA           ATMW-4D         Anthracene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(a)anthracene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(a)pyrene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(b)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(g,h,i)perylene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(k)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-chloroethoxy)methane         UG/L         10         U         UJ         NA           ATMW-4D         bis(2-chloroethyl) ether         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-ethylhexyl)phthalate         UG/L         1         J         J         0.01           ATMW-4D         Butylbenzylphthalate         UG/L         10         U         UJ         NA           ATMW-4D	ATMW-4D	4-Nitrophenol	UG/L		26	U	UJ	NA
ATMW-4D         Anthracene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(a)anthracene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(a)pyrene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(b)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(k)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-chloroethoxy)methane         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-chloroethyl) ether         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-cthylhexyl)phthalate         UG/L         1         J         J         0.01           ATMW-4D         Butylbenzylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Carbazole         UG/L         10         U         UJ         NA           ATMW-4D         Di-n-butylphthalate         UG/L         10         U         UJ         NA           ATMW-4D <td< td=""><td>ATMW-4D</td><td>Acenaphthene</td><td>UG/L</td><td></td><td>10</td><td>U</td><td>UJ</td><td>NA</td></td<>	ATMW-4D	Acenaphthene	UG/L		10	U	UJ	NA
ATMW-4D         Benzo(a)anthracene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(a)pyrene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(b)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(k)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-chloroethoxy)methane         UG/L         10         U         UJ         NA           ATMW-4D         bis(2-chloroethyl) ether         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-ethylhexyl)phthalate         UG/L         1         J         J         0.01           ATMW-4D         Butylbenzylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Carbazole         UG/L         10         U         UJ         NA           ATMW-4D         Chrysene         UG/L         10         U         UJ         NA           ATMW-4D         Di-n-obtylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         D	ATMW-4D	Acenaphthylene	UG/L		10	U	UJ	NA
ATMW-4D         Benzo(a)pyrene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(b)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(g,h,i)perylene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(k)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-chloroethoxy)methane         UG/L         10         U         UJ         NA           ATMW-4D         bis(2-chloroethoxy)methane         UG/L         10         U         UJ         NA           ATMW-4D         bis(2-chloroethyl) ether         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-chloroethyl) ether         UG/L         1         J         J         0.01           ATMW-4D         Bis(2-chloroethyl) ether         UG/L         1         U         UJ         NA           ATMW-4D         Bis(2-chloroethyl) ether         UG/L         10         U         UJ         NA           ATMW-4D         Butylbenzylphthalate         UG/L         10         U         UJ         NA	ATMW-4D	Anthracene	UG/L		10	U	UJ	NA
ATMW-4D         Benzo(a)pyrene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(b)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(g,h,i)perylene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(k)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-chloroethoxy)methane         UG/L         10         U         UJ         NA           ATMW-4D         bis(2-chloroethoxy)methane         UG/L         10         U         UJ         NA           ATMW-4D         bis(2-chloroethyl) ether         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-chloroethyl) ether         UG/L         1         J         J         0.01           ATMW-4D         Bis(2-chloroethyl) ether         UG/L         1         U         UJ         NA           ATMW-4D         Bis(2-chloroethyl) ether         UG/L         10         U         UJ         NA           ATMW-4D         Butylbenzylphthalate         UG/L         10         U         UJ         NA	ATMW-4D	Benzo(a)anthracene	UG/L		10	U	UJ	NA
ATMW-4D         Benzo(b)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(g,h,i)perylene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(k)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-chloroethoxy)methane         UG/L         10         U         UJ         NA           ATMW-4D         bis(2-chloroethyl) ether         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-ethylhexyl)phthalate         UG/L         1         J         J         0.01           ATMW-4D         Butylbenzylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Carbazole         UG/L         10         U         UJ         NA           ATMW-4D         Di-n-butylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Di-n-octylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Dibenzo(a,h)anthracene         UG/L         10         U         UJ         NA			UG/L		10	U	UJ	NA
ATMW-4D         Benzo(g,h,i)perylene         UG/L         10         U         UJ         NA           ATMW-4D         Benzo(k)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-chloroethoxy)methane         UG/L         10         U         UJ         NA           ATMW-4D         bis(2-chloroethyl) ether         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-ethylhexyl)phthalate         UG/L         1         J         J         0.01           ATMW-4D         Butylbenzylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Carbazole         UG/L         10         U         UJ         NA           ATMW-4D         Chrysene         UG/L         10         U         UJ         NA           ATMW-4D         Di-n-butylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Di-n-octylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Dibenzo(a,h)anthracene         UG/L         10         U         UJ         NA			UG/L		10	U	UJ	NA
ATMW-4D         Benzo(k)fluoranthene         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-chloroethoxy)methane         UG/L         10         U         UJ         NA           ATMW-4D         bis(2-chloroethyl) ether         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-ethylhexyl)phthalate         UG/L         1         J         J         0.01           ATMW-4D         Butylbenzylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Carbazole         UG/L         10         U         UJ         NA           ATMW-4D         Chrysene         UG/L         10         U         UJ         NA           ATMW-4D         Di-n-butylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Di-n-octylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Dibenzo(a,h)anthracene         UG/L         10         U         UJ         NA	ATMW-4D	Benzo(g,h,i)perylene			10	U	UJ	NA
ATMW-4D         Bis(2-chloroethoxy)methane         UG/L         10         U         UJ         NA           ATMW-4D         bis(2-chloroethyl) ether         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-ethylhexyl)phthalate         UG/L         1         J         J         0.01           ATMW-4D         Butylbenzylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Carbazole         UG/L         10         U         UJ         NA           ATMW-4D         Chrysene         UG/L         10         U         UJ         NA           ATMW-4D         Di-n-butylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Di-n-octylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Dibenzo(a,h)anthracene         UG/L         10         U         UJ         NA						U	UJ	<del>                                     </del>
ATMW-4D         bis(2-chloroethyl) ether         UG/L         10         U         UJ         NA           ATMW-4D         Bis(2-ethylhexyl)phthalate         UG/L         1         J         J         0.01           ATMW-4D         Butylbenzylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Carbazole         UG/L         10         U         UJ         NA           ATMW-4D         Chrysene         UG/L         10         U         UJ         NA           ATMW-4D         Di-n-butylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Di-n-octylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Dibenzo(a,h)anthracene         UG/L         10         U         UJ         NA			UG/L		10	U	UJ	NA
ATMW-4D       Bis(2-ethylhexyl)phthalate       UG/L       1       J       J       0.01         ATMW-4D       Butylbenzylphthalate       UG/L       10       U       UJ       NA         ATMW-4D       Carbazole       UG/L       10       U       UJ       NA         ATMW-4D       Chrysene       UG/L       10       U       UJ       NA         ATMW-4D       Di-n-butylphthalate       UG/L       10       U       UJ       NA         ATMW-4D       Di-n-octylphthalate       UG/L       10       U       UJ       NA         ATMW-4D       Dibenzo(a,h)anthracene       UG/L       10       U       UJ       NA						U	UJ	
ATMW-4D         Butylbenzylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Carbazole         UG/L         10         U         UJ         NA           ATMW-4D         Chrysene         UG/L         10         U         UJ         NA           ATMW-4D         Di-n-butylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Di-n-octylphthalate         UG/L         10         U         UJ         NA           ATMW-4D         Dibenzo(a,h)anthracene         UG/L         10         U         UJ         NA		<del></del>	+				<del></del>	<del></del>
ATMW-4D Carbazole         UG/L         10         U         UJ         NA           ATMW-4D Chrysene         UG/L         10         U         UJ         NA           ATMW-4D Di-n-butylphthalate         UG/L         10         U         UJ         NA           ATMW-4D Di-n-octylphthalate         UG/L         10         U         UJ         NA           ATMW-4D Dibenzo(a,h)anthracene         UG/L         10         U         UJ         NA						+		
ATMW-4D Chrysene         UG/L         10         U         UJ         NA           ATMW-4D Di-n-butylphthalate         UG/L         10         U         UJ         NA           ATMW-4D Di-n-octylphthalate         UG/L         10         U         UJ         NA           ATMW-4D Dibenzo(a,h)anthracene         UG/L         10         U         UJ         NA				1		<del></del>	<del>}</del>	
ATMW-4D Di-n-butylphthalate UG/L 10 U UJ NA ATMW-4D Di-n-octylphthalate UG/L 10 U UJ NA ATMW-4D Dibenzo(a,h)anthracene UG/L 10 U UJ NA			-					<del></del>
ATMW-4D Di-n-octylphthalate UG/L 10 U UJ NA ATMW-4D Dibenzo(a,h)anthracene UG/L 10 U UJ NA				<del>-</del>  -			-	<del></del>
ATMW-4D Dibenzo(a,h)anthracene UG/L 10 U UJ NA				<del>- 1</del>			<del>†                                      </del>	<del></del>
		<del></del>	<del></del>	<del> </del>				<del></del>
			UG/L	·	10	Ŭ	UJ	NA



Well	Analyte	Units	Highest Detect	<u> </u>	Current	Event	
<u> </u>		<u> </u>	during Baseline	Result	LQ	DQ	Detect Limit
ATMW-4D	Diethylphthalate	UG/L		10	U	UJ	NA
ATMW-4D	Dimethylphthalate	UG/L		10	U	UJ	NA
ATMW-4D	Fluoranthene	UG/L		10	U	UJ	NA
ATMW-4D	Fluorene	UG/L		10	U	UJ	NA
ATMW-4D	Hexachlorobenzene	UG/L	•	10	U	UJ	NA
ATMW-4D	Hexachlorobutadiene	UG/L		. 10	U	UJ	NA
ATMW-4D	Hexachlorocyclopentadiene	UG/L		10	U	_UJ	NA
ATMW-4D	Hexachloroethane	UG/L		10	υ.	UJ	NA
ATMW-4D	Indeno(1,2,3-cd)pyrene	UG/L	_	10	U	UJ	NA
ATMW-4D	Isophorone	UG/L	-	10	U	UJ	NA
ATMW-4D	N-Nitroso-di-n-propylamine	UG/L		10	U	UJ	NA
ATMW-4D	N-Nitrosodiphenylamine	UG/L		10	U	UJ	NA
ATMW-4D	Naphthalene	UG/L		10	U	UJ	NA
ATMW-4D	Nitrobenzene	UG/L		10	U	UJ	NA
ATMW-4D	Pentachlorophenol	UG/L		26	U	UJ	NA
ATMW-4D	Phenanthrene	UG/L		10	U	UJ	NA
ATMW-4D		UG/L		10	U	UJ	NA
ATMW-4D	Pyrene	UG/L		10	U	UJ	NA
M-4S	1,2,4-Trichlorobenzene	UG/L	10	48.11	U		NA
M-4S	1,2-Dichlorobenzene	UG/L	10		U		NA
M-4S	1,3-Dichlorobenzene	UG/L	10	111	U		NA
M-4S	1,4-Dichlorobenzene	UG/L	10	111	U		NA
M-4S	2,2'-oxybis(1-Chloropropane)	UG/L	10	\$2.50 m	U		NA
M-4S	2,4,5-Trichlorophenol	UG/L	25	28	U		NA
M-4S	2,4,6-Trichlorophenol	UG/L	10	33.11	U		NA
M-4S	2,4-Dichlorophenol	UG/L	10	11	U		NA
M-4S	2,4-Dimethylphenol	UG/L	10	311	U		NA
M-4S	2,4-Dinitrophenol	UG/L	25	28	U		NA
M-4S	2,4-Dinitrotoluene	UG/L	10		U		NA
M-4S	2,6-Dinitrotoluene	UG/L	10	5220117	U	•	NA
M-4S	2-Chloronaphthalene	UG/L	10		U		NA
M-4S	2-Chlorophenol	UG/L	10	11	U		NA
M-4S	2-Methylnaphthalene	UG/L	10	#2/: #11@/said	U	UJ	NA
<u>M-4S</u>	2-Methylphenol	UG/L	10		U		NA
M-4S	2-Nitroaniline	UG/L	25	€ 128	U		NA
M-4S	2-Nitrophenol	UG/L	10	211	U		NA
M-4S	3,3'-Dichlorobenzidine	UG/L	10	2 12 20 10 20 20 20	U		NA
M-4S	3-Nitroaniline	UG/L	25	28	U		NA
M-4S	4,6-Dinitro-2-methylphenol	UG/L	25	28	U	1	NA
M-4S	4-Bromophenyl-phenylether	UG/L	10	2284291122	U		NA
M-4S	4-Chloro-3-methylphenol	UG/L	10	680E3131178-3330	U		NA
M-4S	4-Chloroaniline	UG/L	10	10.5.501170.5.2.2	Ü		NA
M-4S	4-Chlorophenyl-phenyl ether	UG/L	10	322.96311.62	U	1	NA
M-4S	4-Methylphenol	UG/L	10	233230115.2.3	U	1	NA
M-4S	4-Nitroaniline	UG/L	25	28	Ū	UJ	NA
M-4S	4-Nitrophenol	UG/L	25	-284	Ū		NA



Well	Well . Analyte	Units	Highest Detect		Current	Event	
	•		during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
M-4S	Acenaphthene	UG/L	10	611.	U		NA
M-4S	Acenaphthylene	UG/L	10	2.11	U		NA
M-4S	Anthracene	UG/L	10	3.00	U		NA
M-4S	Benzo(a)anthracene	UG/L	10	201123	U		NA
M-4S	Benzo(a)pyrene	UG/L	10	311	U		NA
M-4S	Benzo(b)fluoranthene	UG/L	10	22311636	U		NA
M-4S	Benzo(g,h,i)perylene	UG/L	10	1/100	U		NA
M-4S	Benzo(k)fluoranthene	UG/L	10	E TOTAL	U	-	NA
M-4S	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
M-4S	bis(2-chloroethyl) ether	UG/L	71	772			0.01
M-4S	Bis(2-ethylhexyl)phthalate	UG/L	10	*** \$2011E	U		NA
M-4S	Butylbenzylphthalate	UG/L	10	111	U		NA
M-4S	Carbazole	UG/L	10	fize a justice.	U	UJ	NA
M-4S	Chrysene	UG/L	10	S. 11 2	U		NA
M-4S	Di-n-butylphthalate	UG/L	10	2. 11.	U		NA
M-4S	Di-n-octylphthalate	UG/L	10	75. 73.011./2.76	U		NA
M-4S	Dibenzo(a,h)anthracene	UG/L	10	FEE WILLS	U		NA
M-4S	Dibenzofuran	UG/L	10	20001112.3	U		NA
M-4S	Diethylphthalate	UG/L	10	111	Ū ·		NA
M-4S	Dimethylphthalate	UG/L	10	111	U		NA
M-4S	Fluoranthene	UG/L	10	2000211	U	UJ	NA
M-4S	Fluorene	UG/L	10	<b>}=</b>	U		NA
M-4S	Hexachlorobenzene	UG/L	10	11	U		NA
M-4S	Hexachlorobutadiene	UG/L	10	110	U		NA
M-4S	Hexachlorocyclopentadiene	UG/L	10	11271118	U		NA
M-4S	Hexachloroethane	UG/L	10		U		NA
M-4S	Indeno(1,2,3-cd)pyrene	UG/L	10	11	. U		NA
M-4S	Isophorone	UG/L	10	11	U		NA
M-4S	N-Nitroso-di-n-propylamine	UG/L	10	55.2211	U		NA
M-4S	N-Nitrosodiphenylamine	UG/L	10	11	U		NA
M-4S	Naphthalene	UG/L	10	5. s. 11	U		NA
M-4S	Nitrobenzene	UG/L	10	2412	U		NA
M-4S	Pentachlorophenol	UG/L	25	28	U		NA
M-4S	Phenanthrene	UG/L	10	<b>11</b>	U		NA
M-4S	Phenol	UG/L	25	11	U		NA
M-4S	Pyrene	UG/L	10	%) \$\left(\frac{1}{2}\left(\frac{1}2\lef	U		NA
MW-06	1,2,4-Trichlorobenzene	UG/L	20	10	U		NA
MW-06	1,2-Dichlorobenzene	UG/L	20	10	U		NA
MW-06	1,3-Dichlorobenzene	UG/L	20	10	U		NA
MW-06	1,4-Dichlorobenzene	UG/L	20	10	U		NA
MW-06	2,2'-oxybis(1-Chloropropane)	UG/L	20	10	U	UJ	NA
MW-06	2,4,5-Trichlorophenol	UG/L	50	26	U		NA
MW-06	2,4,6-Trichlorophenol	UG/L	20	10	U		NA
MW-06	2,4-Dichlorophenol	UG/L	20	10	U		NA
MW-06	2,4-Dimethylphenol	UG/L	20	10	U		NA
MW-06	2,4-Dinitrophenol	UG/L	50	26	U		NA



# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
	]		during Baseline	Result	LQ	DQ	Detect Limit
MW-06	2,4-Dinitrotoluene	UG/L	20	10	U ·		NA
MW-06	2,6-Dinitrotoluene	UG/L	20	10	U	-	NA
MW-06	2-Chloronaphthalene	UG/L	20	10	Ū		NA
MW-06	2-Chlorophenol	UG/L	20	10	Ū		NA
MW-06	2-Methylnaphthalene	UG/L	20	10	U		NA ,
MW-06	2-Methylphenol	UG/L	20	10	U		NA
MW-06	2-Nitroaniline	UG/L	50	.26	U	<u> </u>	NA
MW-06	2-Nitrophenol	UG/L	20	10	U.		NA
MW-06	3,3'-Dichlorobenzidine	UG/L	20	10	Ū	UJ	NA
MW-06	3-Nitroaniline	UG/L	50	26	U -		NA
MW-06	4,6-Dinitro-2-methylphenol	UG/L	50	26	U		NA
MW-06	4-Bromophenyl-phenylether	UG/L	20	10	U		NA
MW-06	4-Chloro-3-methylphenol	UG/L	20	10	U		NA
MW-06	4-Chloroaniline	UG/L	20	10 .	U		NA
MW-06	4-Chlorophenyl-phenyl ether	UG/L	20	10	Ü		NA
MW-06	4-Methylphenol	UG/L	20	10	U		NA
MW-06	4-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-06	4-Nitrophenol	UG/L	50	26	U		NA
MW-06	Acenaphthene	UG/L	20	10	U		NA
MW-06	Acenaphthylene	UG/L	20	10	U		NA
MW-06	Anthracene	UG/L	20	10	U ,		NA
MW-06	Benzo(a)anthracene	UG/L	20	10	U		. NA
MW-06	Benzo(a)pyrene	UG/L	20	10	U.		NA
MW-06	Benzo(b)fluoranthene	UG/L	20	10	U ·		NA
MW-06	Benzo(g,h,i)perylene	UG/L	20	10	U		NA
MW-06	Benzo(k)fluoranthene	UG/L	20	10	U		NA
MW-06	Bis(2-chloroethoxy)methane	UG/L	20	10	U		NA
MW-06	bis(2-chloroethyl) ether	UG/L	56	13			0.01
MW-06	Bis(2-ethylhexyl)phthalate	UG/L	20	10	U		NA
MW-06	Butylbenzylphthalate	UG/L	20	10	U		NA
MW-06	Carbazole	UG/L	20	10	U	<u> </u>	NA
MW-06	Chrysene	UG/L	20	10	U_		NA
MW-06	Di-n-butylphthalate	UG/L	20	10	U	ļ	NA_
MW-06	Di-n-octylphthalate	UG/L	20	10	U		NA
MW-06	Dibenzo(a,h)anthracene	UG/L	20	10	U		NA
MW-06	Dibenzofuran	UG/L	20	10	U		NA
MW-06	Diethylphthalate	UG/L	20	10	U		NA
MW-06	Dimethylphthalate	UG/L	20	10	U		NA
MW-06	Fluoranthene	UG/L	20	10	U		NA
MW-06	Fluorene	UG/L	20	10	υ		NA
MW-06	Hexachlorobenzene	UG/L	20	10	U		NA
MW-06	Hexachlorobutadiene	UG/L	20	10	U		NA
MW-06	Hexachlorocyclopentadiene	UG/L	20	10	U		NA
MW-06	Hexachloroethane	UG/L	20	10	U		NA
MW-06	Indeno(1,2,3-cd)pyrene	UG/L	20	10	U		NA
MW-06	Isophorone	UG/L	20	3 .	J	J	0.01

BOLD; = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	<del></del> -
			during Baseline	Result	LQ	DQ	Detect Limit
MW-06	N-Nitroso-di-n-propylamine	UG/L	20	10	U -		NA
MW-06	N-Nitrosodiphenylamine	UG/L	20	10	U		NA
MW-06	Naphthalene	UG/L	20	10	U		NA
MW-06	Nitrobenzene	UG/L	20	10	U	UJ	NA
MW-06	Pentachlorophenol	UG/L	50	26	Ū	UJ	NA ,
MW-06	Phenanthrene	UG/L	20	10	Ū.		NA
MW-06	Phenol	UG/L	60	. 10	Ü	1	NA
MW-06	Pyrene .	UG/L	20	. 10	U		NA
MW-08	1,2,4-Trichlorobenzene	UG/L	20	10	U	UJ	NA
MW-08	1,2-Dichlorobenzene	UG/L	20	10	Ū ·	UJ	NA
MW-08	1,3-Dichlorobenzene	UG/L	20	10	Ū	UJ	NA
MW-08	1,4-Dichlorobenzene	UG/L	20	10	Ü	UJ	NA
MW-08	2,2'-oxybis(1-Chloropropane)	UG/L	20	10	Ū	UJ	NA
MW-08	2,4,5-Trichlorophenol	UG/L	50	26	Ū	UJ	NA
MW-08	2,4,6-Trichlorophenol	UG/L	20	10	Ū	UJ	NA
MW-08	2,4-Dichlorophenol	UG/L	20	10	U	UJ	NA
MW-08	2,4-Dimethylphenol	UG/L	20	10	Ü	UJ	NA
MW-08	2,4-Dinitrophenol	UG/L	50	26	Ū	UJ	NA
MW-08	2,4-Dinitrotoluene	UG/L	20	10	Ū	UJ	NA
MW-08	2,6-Dinitrotoluene	UG/L	20	10	Ū	UJ	NA
MW-08	2-Chloronaphthalene	UG/L	20	10	U	UJ	NA
MW-08	2-Chlorophenol	UG/L.	20	10	U	UJ	NA
MW-08	2-Methylnaphthalene	UG/L	20	10	U .	UJ	NA
MW-08	2-Methylphenol	UG/L	20	10	Ū	UJ	NA
MW-08	2-Nitroaniline	UG/L	50	26	Ū	UJ	NA
MW-08	2-Nitrophenol	UG/L	20	10	Ü	UJ	NA
MW-08	3,3'-Dichlorobenzidine	UG/L	20	: 10	Ü	UJ	NA
MW-08	3-Nitroaniline	UG/L	50	26	Ü	UJ	NA NA
MW-08	4,6-Dinitro-2-methylphenol	UG/L	50	26	U	UJ	NA
MW-08	4-Bromophenyl-phenylether	UG/L	20	10	Ū	ŪJ	NA
MW-08	4-Chloro-3-methylphenol	UG/L	20	10	Ü	UJ	NA
MW-08	4-Chloroaniline	UG/L	20	10	Ū	UJ	NA
MW-08	4-Chlorophenyl-phenyl ether	UG/L	20	10	Ū	UJ	NA
MW-08	4-Methylphenol	UG/L	20	10	Ü	UJ	NA
MW-08	4-Nitroaniline	UG/L	50	26	Ū	UJ	NA
MW-08	4-Nitrophenol	UG/L	50	26	U	UJ	NA
MW-08	Acenaphthene	UG/L	20	10	U	UJ	NA
MW-08	Acenaphthylene	UG/L	20	10	Ü	UJ	NA
MW-08	Anthracene	UG/L	20	10	Ū	UJ	NA
MW-08	Benzo(a)anthracene	UG/L	20	10	U	UJ	NA NA
MW-08	Benzo(a)pyrene	UG/L	20	10	T U	UJ	NA
MW-08	Benzo(b)fluoranthene	UG/L	20	10	U	UJ	NA NA
MW-08	Benzo(g,h,i)perylene	UG/L	20	10	U	UJ	NA NA
MW-08	Benzo(k)fluoranthene	UG/L	20	10	$\frac{U}{U}$	UJ	NA NA
MW-08	Bis(2-chloroethoxy)methane	UG/L	20	10	U	UJ	NA NA
MW-08	bis(2-chloroethyl) ether	UG/L	20		U	UJ	NA NA
1AT AA -0Q	Tors(z-cinoroemyr) emer	I OOL	20	10	1 0	T 01	NA

**BOLD** = Exceedance

NA = Not Applicable

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-08	Bis(2-ethylhexyl)phthalate	UG/L	20	10	U	UJ	NA
MW-08	Butylbenzylphthalate	UG/L	20	10	U	UJ	NA
MW-08	Carbazole	UG/L	20	10	U	UJ	NA
MW-08	Chrysene	UG/L	20	10	U	UJ	NA
MW-08	Di-n-butylphthalate	UG/L	20	10	U	UJ	NA
MW-08	Di-n-octylphthalate	UG/L	20	. 10	U	UJ	NA
MW-08	Dibenzo(a,h)anthracene	UG/L	20	10	U	UJ	NA
MW-08	Dibenzofuran	UG/L	20	10	U	UJ	NA
MW-08	Diethylphthalate	UG/L	20	10	U	UJ	NA
MW-08	Dimethylphthalate	UG/L	20	10	U	UJ	NA
MW-08	Fluoranthene	UG/L	20	10	U	UJ	NA
MW-08	Fluorene	UG/L	20	10	U	UJ	NA
MW-08	Hexachlorobenzene	UG/L	20	10	U	UJ	NA
MW-08	Hexachlorobutadiene	UG/L	20	10	Ü	UJ	NA
MW-08	Hexachlorocyclopentadiene	UG/L	20	10	Ū	UJ	NA
MW-08	Hexachloroethane	UG/L	20	10	U	UJ	NA
MW-08	Indeno(1,2,3-cd)pyrene	UG/L	20	10	U	UJ	NA
MW-08	Isophorone	UG/L	20	10	U	UJ	NA
MW-08	N-Nitroso-di-n-propylamine	UG/L	20	10	U	UJ	NA
MW-08	N-Nitrosodiphenylamine	UG/L	20	10	Ü	UJ	NA
MW-08	Naphthalene	UG/L	20	10	Ü	UJ	NA
MW-08	Nitrobenzene	UG/L	20	10	Ü	UJ	NA
MW-08	Pentachlorophenol	UG/L	50	26	Ü	UJ	NA
MW-08	Phenanthrene	UG/L	20	10	Ū	UJ	NA
MW-08	Phenol	UG/L	140	10	U	UJ	NA
MW-08	Pyrene	UG/L	20	10	U	UJ	NA
MW-09R	1,2,4-Trichlorobenzene	UG/L	50	10	U		NA
	1,2-Dichlorobenzene	UG/L	50	10	Ü	1	NA
MW-09R	1,3-Dichlorobenzene	UG/L	50	10	Ü		NA
	1,4-Dichlorobenzene	UG/L	50	10	Ü		NA
	2,2'-oxybis(1-Chloropropane)	UG/L	50	10	U	UJ	NA
	2,4,5-Trichlorophenol	UG/L	125	25	Ü		NA
	2,4,6-Trichlorophenol	UG/L	50	10	Ü		NA
	2,4-Dichlorophenol	UG/L	50	10	Ū		NA
	2,4-Dimethylphenol	UG/L	50	10	U	<del> </del>	NA
	2,4-Dinitrophenol	UG/L	125	25	Ū	<del>                                     </del>	NA NA
MW-09R	2,4-Dinitrotoluene	UG/L	50	10	Ü	<del>                                     </del>	NA NA
	2,6-Dinitrotoluene	UG/L	50	10	U	<del>                                     </del>	NA NA
	2-Chloronaphthalene	UG/L	50	10	U	<del>                                     </del>	NA NA
	2-Chlorophenol	UG/L	50	10	U		NA NA
MW-09R MW-09R		UG/L	50	10	U	-	NA NA
	2-Methylnaphthalene	UG/L	50		<del></del>		
MW-09R	2-Methylphenol		<del></del>	10	U	<del>                                     </del>	NA NA
	2-Nitroaniline	UG/L	125	25	-	<del> </del>	NA NA
	2-Nitrophenol	UG/L	50	10	U	777	NA
MW-09R	3,3'-Dichlorobenzidine	UG/L	50	10	U	UJ	NA NA
MW-09R	3-Nitroaniline	UG/L	125	25	U	1	NA

BOLD = Exceedance

NA = Not Applicable

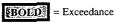
# American Chemical Services NPL Site Griffith, Indiana

Well	Well Analyte	Units	Highest Detect	-	Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-09R	4,6-Dinitro-2-methylphenol	UG/L	125	25	U		NA
MW-09R	4-Bromophenyl-phenylether	UG/L	50	10	U		NA
MW-09R	4-Chloro-3-methylphenol	UG/L	50	10	U		NA
MW-09R	4-Chloroaniline	UG/L	50	10	Ü		NA
MW-09R	4-Chlorophenyl-phenyl ether	UG/L	50	10	U		NA
MW-09R	4-Methylphenol	UG/L.	50	. 10	U		NA ·
MW-09R	4-Nitroaniline	UG/L	125	25	U		NA
MW-09R	4-Nitrophenol	UG/L	125	25	U	UJ	NA
MW-09R	Acenaphthene	UG/L	50	10	U		NA
MW-09R	Acenaphthylene	UG/L	50	10	· U		NA
MW-09R	Anthracene	UG/L	50	10	U		NA
MW-09R	Benzo(a)anthracene	UG/L	50	10	U		NA
MW-09R	Benzo(a)pyrene	UG/L	50	10	U		NA
MW-09R	Benzo(b)fluoranthene	UG/L	50	10	U		NA
MW-09R	Benzo(g,h,i)perylene	UG/L	50	10	U		NA
MW-09R	Benzo(k)fluoranthene	UG/L	50	10	U		NA
MW-09R	Bis(2-chloroethoxy)methane	UG/L	50	10	U		NA
MW-09R	bis(2-chloroethyl) ether	UG/L	50	13			0.01
MW-09R	Bis(2-ethylhexyl)phthalate	UG/L	50	10	U		NA
MW-09R	Butylbenzylphthalate	UG/L	50	10	U		NA
MW-09R	Carbazole	UG/L	50	10	U		NA
MW-09R	Chrysene	UG/L	50	10	U		NA
MW-09R	Di-n-butylphthalate	UG/L	50	10	U		NA
MW-09R	Di-n-octylphthalate	UG/L	50	10	U		NA
MW-09R	Dibenzo(a,h)anthracene	UG/L	50	10	U		NA
MW-09R	Dibenzofuran	UG/L	50	10	U		NA
MW-09R	Diethylphthalate	UG/L	50	10	U		. NA
MW-09R	Dimethylphthalate	UG/L	50	10	U		NA
MW-09R	Fluoranthene	UG/L	50	10	U		NA
MW-09R	Fluorene	UG/L	50	10	U		NA
MW-09R	Hexachlorobenzene	UG/L	50	10	U		NA
MW-09R	Hexachlorobutadiene	UG/L	50	10	U		NA
MW-09R	Hexachlorocyclopentadiene	UG/L	50	10	U		NA
MW-09R	Hexachloroethane	UG/L	50	10	U		NA
MW-09R	Indeno(1,2,3-cd)pyrene	UG/L	50	10	U		NA
	Isophorone	UG/L	50	10	U		NA
	N-Nitroso-di-n-propylamine	UG/L	50	10	U		NA
MW-09R	N-Nitrosodiphenylamine	UG/L	50	10	U		NA
	Naphthalene	UG/L	50	10	U		NA
	Nitrobenzene	UG/L	50	10	U	UJ	NA
MW-09R	Pentachlorophenol	UG/L	125	25	U	UJ	NA
MW-09R	Phenanthrene	UG/L	50	10	U		NA
MW-09R	Phenol	UG/L	50	10	U	Ī ·	NA
MW-09R	Pyrene	UG/L	50	10	U		NA
MW-10C	1,2,4-Trichlorobenzene	UG/L	10	10	U	<u> </u>	NA
	1,2-Dichlorobenzene	UG/L	10	10	Ū		NA

BOED = Exceedance NA = Not Applicable

# American Chemical Services NPL Site Griffith, Indiana

Well	Well Analyte		Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-10C	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-10C	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-10C	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U	UJ	NA
MW-10C	2,4,5-Trichlorophenol	UG/L	25	26	U		NA
MW-10C	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-10C	2,4-Dichlorophenol	UG/L	10	. 10	U		NA.
	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-10C	2,4-Dinitrophenol	UG/L	25	262	U		NA.
MW-10C	2,4-Dinitrotoluene	UG/L	10	- 10	U		ŇA
MW-10C	2,6-Dinitrotoluene	UG/L	10	10	U		NA -
MW-10C	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-10C	2-Chlorophenol	UG/L	10	10	U		NA
MW-10C	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-10C	2-Methylphenol	UG/L	10	10	U		NA
MW-10C	2-Nitroaniline	UG/L	25	26	U		NA
MW-10C	2-Nitrophenol	UG/L	10	10	U		NA
MW-10C	3,3'-Dichlorobenzidine	UG/L	10	10	U	UJ	· NA
MW-10C	3-Nitroaniline	UG/L	25	26	U	1	NA
MW-10C	4,6-Dinitro-2-methylphenol	UG/L	25	26	U	1	NA
MW-10C	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-10C	4-Chloro-3-methylphenol	UG/L	10	• 10	U	ĺ	NA
MW-10C	4-Chloroaniline	UG/L	10	10	U	j	NA
MW-10C	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA .
MW-10C	4-Methylphenol	UG/L	10	10	U		NA
MW-10C	4-Nitroaniline	UG/L	25	26	U		NA
MW-10C	4-Nitrophenol	UG/L	25	26	U	UJ	NA
MW-10C	Acenaphthene	UG/L	10	10	U	[:	NA
MW-10C	Acenaphthylene	UG/L	10	10	U		NA
MW-10C	Anthracene	UG/L	10	10	U		NA
MW-10C	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-10C	Benzo(a)pyrene	UG/L	10	10	Ü		NA
MW-10C	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-10C	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
	Benzo(k)fluoranthene	UG/L	10	10	U		NA
	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-10C	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-10C	Bis(2-ethylhexyl)phthalate	UG/L	10	2	JB	JB	0.01
MW-10C	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-10C	Carbazole	UG/L	10	10	U		NA
MW-10C	Chrysene	UG/L	10	10	U	1	NA
MW-10C	Di-n-butylphthalate	UG/L	10	10	Ü		NA
MW-10C	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-10C	Dibenzo(a,h)anthracene	UG/L	10	10	U	Ì	NA
MW-10C	Dibenzofuran	UG/L	10	10	U	1	NA
MW-10C	Diethylphthalate	UG/L	10	10	Ü		NA
MW-10C	Dimethylphthalate	UG/L	10	10	U	<u> </u>	NA

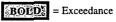


# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
	· ·		during Baseline	Result	LQ	DO	Detect Limit
MW-10C	Fluoranthene	UG/L	10	10	U		NA
	Fluorene	UG/L	10	10	U		NA
	Hexachlorobenzene	UG/L	10	10			NA
	Hexachlorobutadiene	UG/L	- 10	10	U		NA
	Hexachlorocyclopentadiene	UG/L	: 10	10	U	<u> </u>	NA
	Hexachloroethane	UG/L	10	. 10	U		NA
	Indeno(1,2,3-cd)pyrene	UG/L	10	10	Ü		NA
	Isophorone	UG/L	10	10	Ü		NA
	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-10C	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-10C	Naphthalene	UG/L	10	10	U		NA
MW-10C	Nitrobenzene	UG/L	10	10	U	UJ	NA
MW-10C	Pentachlorophenol	UG/L	25	26	U	UJ	NA
MW-10C	Phenanthrene	UG/L	10	10	Ü		NA
MW-10C	Phenol	UG/L	20	10	U		NA
MW-10C	Pyrene	UG/L	10	10	Ü		NA
MW-13	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-13	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-13	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-13	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-13	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-13	2,4,5-Trichlorophenol	UG/L	25	25	U		NA
MW-13	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-13	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-13	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-13	2,4-Dinitrophenol	UG/L	25	25	U		NA
MW-13	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-13	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-13	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-13	2-Chlorophenol	UG/L	10	10	U		NA
MW-13	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-13	2-Methylphenol	UG/L	10	10	U		NA
MW-13	2-Nitroaniline	UG/L	25	25	U		NA
MW-13	2-Nitrophenol	UG/L	10	10	U		NA
MW-13	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-13	3-Nitroaniline	UG/L	25	25	U		NA
MW-13	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-13	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-13	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-13	4-Chloroaniline	UG/L	10	10	U		NA
MW-13	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-13	4-Methylphenol	UG/L	10	10	U		NA
MW-13	4-Nitroaniline	UG/L	25	25	U		NA
MW-13	4-Nitrophenol	UG/L	25	25	U		NA
MW-13	Acenaphthene	UG/L	10	10	U		NA
MW-13	Acenaphthylene	UG/L	10	10	U		NA

BOLD = Exceedance

Well	Analyte	Units	Highest Detect	<u> </u>	Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-13	Anthracene :	UG/L	10	10	U		NA
MW-13	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-13	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-13	Benzo(b)fluoranthene	UG/L	10	10	U	<u> </u>	NA
MW-13	Benzo(g,h,i)perylene	UG/L	. 10	10	U		NA
MW-13	Benzo(k)fluoranthene	UG/L	10	. 10	U		NA
MW-13	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-13	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-13	Bis(2-ethylhexyl)phthalate	UG/L	17	1	• Ј		0.01
MW-13	Butylbenzylphthalate	ÙG/L	10	10	· U		NA
MW-13	Carbazole	UG/L	10	10	U	<u> </u>	NA
MW-13	Chrysene	UG/L	10	10	U		NA
MW-13	Di-n-butylphthalate	UG/L	10	10	U	-	NA
MW-13	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-13	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-13	Dibenzofuran	UG/L	10	10	U		NA
MW-13	Diethylphthalate	UG/L	10	10	U		NA
MW-13	Dimethylphthalate	UG/L	10	10	U		NA
MW-13	Fluoranthene	UG/L	10	10	U	<u> </u>	NA
MW-13	Fluorene	UG/L	10	10	Ü		NA
MW-13	Hexachlorobenzene	UG/L	10	10	U		NA
MW-13	Hexachlorobutadiene	UG/L	. 10	10	U		NA
MW-13	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-13	Hexachloroethane	UG/L	· 10	10	U		NA
MW-13	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-13	Isophorone	UG/L	10	10	U		NA
MW-13	N-Nitroso-di-n-propylamine	UG/L	10	10	U	}	NA
MW-13	N-Nitrosodiphenylamine	UG/L	10	10	Ŭ		NA
MW-13	Naphthalene	UG/L	10	10	U		NA
MW-13	Nitrobenzene	UG/L	10	10	U		NA
MW-13	Pentachlorophenol	UG/L	25	25	Ü		NA
MW-13	Phenanthrene	UG/L	10	10	U		NA
MW-13	Phenol	UG/L	23	10	U		NA
MW-13	Pyrene	UG/L	10	10	U		NA
MW-14	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-14	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-14	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-14	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-14	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U	UJ	NA
MW-14	2,4,5-Trichlorophenol	UG/L	25	260	Ü		NA
MW-14	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-14	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-14	2,4-Dimethylphenol	UG/L	10	10	U	1	NA
MW-14	2,4-Dinitrophenol	UG/L	25	*26	U	UJ	NA
MW-14	2,4-Dinitrotoluene	UG/L	10	10	U	1	NA
MW-14	2,6-Dinitrotoluene	UG/L	10	10	Ü		NA



Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-14	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-14	2-Chlorophenol	UG/L	10	10	Ü		NA
MW-14	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-14	2-Methylphenol	UG/L	10	10	U		NA
MW-14	2-Nitroaniline	UG/L	25	26 - F	U		NA
MW-14	2-Nitrophenol	UG/L	10	. 10	U	<u> </u>	NA
MW-14	3,3'-Dichlorobenzidine	UG/L	10	10	U	UJ	NA
MW-14	3-Nitroaniline	UG/L	25	26	U		NA
MW-14	4,6-Dinitro-2-methylphenol	'UG/L	25	26	U		NA
MW-14	4-Bromophenyl-phenylether	UG/L	10	10	U	-	NA
MW-14	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-14	4-Chloroaniline	UG/L	10	10	· U		NA
MW-14	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-14	4-Methylphenol	UG/L	10	10	U	,	NA
MW-14	4-Nitroaniline	UG/L	25	26	Ü	·	NA
MW-14	4-Nitrophenol	UG/L	25	26	U	UJ	NA
MW-14	Acenaphthene	UG/L	10	10	U		NA
MW-14	Acenaphthylene	UG/L	10	10	U		NA
MW-14	Anthracene	UG/L	10	10	U		NA
MW-14	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-14	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-14	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-14	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-14	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-14	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-14	bis(2-chloroethyl) ether	UG/L	12	10	U		NA
MW-14	Bis(2-ethylhexyl)phthalate	UG/L	11	10	U		NA
MW-14	Butylbenzylphthalate	UG/L	10 .	10	U		NA
MW-14	Carbazole	UG/L	10	10	U		NA
MW-14	Chrysene	UG/L	10	10	U		NA
MW-14	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-14	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-14	Dibenzo(a,h)anthracene	UG/L	10	10	U	]	NA
MW-14	Dibenzofuran	UG/L	10	10	U		NA
MW-14	Diethylphthalate	UG/L	10	10	U		NA
MW-14	Dimethylphthalate	UG/L	10	10	Ü		NA
MW-14	Fluoranthene	UG/L	10	10	U		NA
MW-14	Fluorene	UG/L	10	10	U		NA
MW-14	Hexachlorobenzene	UG/L	10	10	U		NA
MW-14	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-14	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-14	Hexachloroethane	UG/L	10	10	U		NA
MW-14	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-14	Isophorone	UG/L	10_	10	U		NA
MW-14	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-14	N-Nitrosodiphenylamine	UG/L	10	10	U		NA



### American Chemical Services NPL Site Griffith, Indiana

Well	Well Analyte		Highest Detect	1	Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-14	Naphthalene	UG/L	10	10	U		NA ·
MW-14	Nitrobenzene	UG/L	10	10	U	UJ	NA
MW-14	Pentachlorophenol	UG/L	25	26	U	UJ	NA
MW-14	Phenanthrene	UG/L	10	10	U		NA
MW-14	Phenol	UG/L	18	10	U		NA
MW-14	Pyrene	UG/L	10	. 10	U		NA
MW-15	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-15	1,2-Dichlorobenzene	UG/L	10	10 .	U		NA
MW-15	1,3-Dichlorobenzene	UG/L	10	10	Ü		NA
MW-15	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-15	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-15	2,4,5-Trichlorophenol	UG/L	25	26	U		NA
MW-15	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-15	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-15	2,4-Dimethylphenol	UG/L	10	10	U ·		NA
MW-15	2,4-Dinitrophenol	UG/L	25	26	U		NA
MW-15	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-15	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-15	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-15	2-Chlorophenol	UG/L	10	10	U		NA
MW-15	2-Methylnaphthalene	UG/L	10	10	U	UJ	NA
MW-15	2-Methylphenol	UG/L	10	10	U		NA
MW-15	2-Nitroaniline	UG/L	25	26	U	1	NA
MW-15	2-Nitrophenol	UG/L	10	10	U	•	NA
MW-15	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW- <u>15</u>	3-Nitroaniline	UG/L	25	26	U		NA
MW-15	4,6-Dinitro-2-methylphenol	UG/L.	25	26	U		NA
MW-15	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-15	4-Chloro-3-methylphenol	UG/L	10	10	U	-	NA
MW-15	4-Chloroaniline	UG/L	10	10	U		NA
MW-15	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-15	4-Methylphenol	UG/L	10	10	U		NA
MW-15	4-Nitroaniline	UG/L	25	26	U	UJ	NA
MW-15	4-Nitrophenol	UG/L	25	26	U		NA
MW-15	Acenaphthene	UG/L	10	10	U		NA
MW-15	Acenaphthylene	UG/L	10	10 .	U		NA
MW-15	Anthracene	UG/L	10	10	U		_ NA
MW-15	Benzo(a)anthracene	UG/L	10	10	Ü		NA
MW-15	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-15	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-15	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-15	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-15	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-15	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-15	Bis(2-ethylhexyl)phthalate	UG/L	27	10	U		NA
MW-15	Butylbenzylphthalate	UG/L	10	10	Ü		NA

**ROLD:** = Exceedance

NA = Not Applicable

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-15	Carbazole	UG/L	10	10	U	UJ	NA
MW-15	Chrysene	UG/L	10	10	U		NA
MW-15	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-15	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-15	Dibenzo(a,h)anthracene	UG/L	10	10	U	:	NA
MW-15	Dibenzofuran	UG/L	10	10	U		NA
MW-15	Diethylphthalate	UG/L	10	10	Ŭ		NA
MW-15	Dimethylphthalate	UG/L	10 ·	10	Ü		NA
MW-15	Fluoranthene	UG/L	10	10	U	UJ	NA
MW-15	Fluorene	UG/L	10	10	U		NA
MW-15	Hexachlorobenzene	UG/L	10	10	Ŭ		NA
MW-15	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-15	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-15	Hexachloroethane	UG/L	10	10	U		NA
MW-15	Indeno(1,2,3-cd)pyrene	UG/L	10	10	Ŭ		NA
MW-15	Isophorone	UG/L	10	10	Ü		NA
MW-15	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-15	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-15	Naphthalene	UG/L	10	10	Ü		NA
MW-15	Nitrobenzene	UG/L	10	10	U		NA
MW-15	Pentachlorophenol	UG/L	25	26	U		NA
MW-15	Phenanthrene	UG/L	10	· 10	U		NA
MW-15	Phenol	UG/L	26	10	U		NA
MW-15	Pyrene	UG/L	10	10	U		NA
MW-18	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-18	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-18	1,3-Dichlorobenzene	UG/L	.10	10	U		NA
MW-18	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-18	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		- NA
MW-18	2,4,5-Trichlorophenol	UG/L	25	25	U		NA
MW-18	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-18	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-18	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-18	2,4-Dinitrophenol	UG/L	25	25	U		NA
MW-18	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-18	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-18	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-18	2-Chlorophenol	UG/L	10	10	U		NA NA
MW-18	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-18	2-Methylphenol	UG/L	10	10	U		NA
MW-18	2-Nitroaniline	UG/L	25	25	U		NA
MW-18	2-Nitrophenol	UG/L	10	10	U		NA
MW-18	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-18	3-Nitroaniline	UG/L	25	25	U		NA
MW-18	4,6-Dinitro-2-methylphenol	UG/L	25	25	Ü		NA
MW-18	4-Bromophenyl-phenylether	UG/L	10	10	U	1	NA

**BOLD** = Exceedance

Well	Analyte	Units	Highest Detect		Current	Event	
	ľ		during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-18	4-Chloro-3-methylphenol	UG/L	10 :	10	U		NA
MW-18	4-Chloroaniline	UG/L	10	10	U		NA
MW-18	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-18	4-Methylphenol	UG/L	10	10	U		NA
MW-18	4-Nitroaniline	UG/L	25	25	U .		NA
MW-18	4-Nitrophenol	UG/L	25	25	U		NA
MW-18	Acenaphthene	UG/L	10	10	U		NA
MW-18	Acenaphthylene	UG/L	10	10	U		NA
MW-18	Anthracene	UG/L	10	10	U ·		NA
MW-18	Benzo(a)anthracene	UG/L	10.	10	U		NA
MW-18	Benzo(a)pyrene	UG/L	10	10	U	UJ	NA
MW-18	Benzo(b)fluoranthene	UG/L	10	10	U	UJ	NA
MW-18	Benzo(g,h,i)perylene	UG/L	10	10	U	UJ	NA
MW-18	Benzo(k)fluoranthene	UG/L	10	10	U	UJ	NA
MW-18	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-18	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-18	Bis(2-ethylhexyl)phthalate	UG/L	15	10	U		NA
MW-18	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-18	Carbazole	UG/L	10	10	U	i	NA
MW-18	Chrysene	UG/L	10	10	U		NA
MW-18	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-18	Di-n-octylphthalate	UG/L	10	10	U .		NA .
MW-18	Dibenzo(a,h)anthracene	UG/L	10	10	U	UJ	NA
MW-18	Dibenzofuran	UG/L	10.	10	U .		NA
MW-18	Diethylphthalate	UG/L	10	10	U		NA
MW-18	Dimethylphthalate	UG/L	10	10	U		NA
MW-18	Fluoranthene	UG/L	10	10	U		NA
MW-18	Fluorene	UG/L	10	10	U ·		NA
- MW-18	Hexachlorobenzene	UG/L	10	10	U		NA
MW-18	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-18	Hexachlorocyclopentadiene	UG/L	10	10	υ		NA
MW-18	Hexachloroethane	UG/L	10	10	U		NA
MW-18	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-18	Isophorone	UG/L	10	10	U		NA
MW-18	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-18	N-Nitrosodiphenylamine	UG/L	10	10	U	1	NA
MW-18	Naphthalene	UG/L	10	10	U		NA
MW-18	Nitrobenzene	UG/L	10	10	U		NA
MW-18	Pentachlorophenol	UG/L	25	25	U		NA
MW-18	Phenanthrene	UG/L	10	10	U		NA
MW-18	Phenol	UG/L	21	10	Ü	1	NA
MW-18	Pyrene	UG/L	10	10	Ü		NA
MW-19	1,2,4-Trichlorobenzene	UG/L	10	10	U	UJ	NA
MW-19	1,2-Dichlorobenzene	UG/L	10	10	Ū	UJ	NA
MW-19	1,3-Dichlorobenzene	UG/L	10	10	Ū	UJ	NA
MW-19	1,4-Dichlorobenzene	UG/L	10	10	Ü	UJ	NA



# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-19	2,2'-oxybis(1-Chloropropane)	UG/L	10	4	J	J	0.01
MW-19	2,4,5-Trichlorophenol	UG/L	25	25	U	UJ	NA
MW-19	2,4,6-Trichlorophenol	UG/L	10	10	U	UJ	NA
MW-19	2,4-Dichlorophenol	UG/L	10	10	U	UJ	NA
MW-19	2,4-Dimethylphenol	UG/L	10	10	U	UJ	NA
MW-19	2,4-Dinitrophenol	UG/L	25	25	U	ÚJ	NA
MW-19	2,4-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-19	2,6-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-19	2-Chloronaphthalene	UG/L	10	10	·U	UJ	· NA
MW-19	2-Chlorophenol	UG/L	10	10	U	UJ	NA
MW-19	2-Methylnaphthalene	UG/L	10	10	U	UJ	NA
MW-19	2-Methylphenol	UG/L	10	10	U	UJ	NA
MW-19	2-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-19	2-Nitrophenol	UG/L	10	10	U	UJ	NA
MW-19	3,3'-Dichlorobenzidine	UG/L	10	10	U	UJ	NA
MW-19	3-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-19	4,6-Dinitro-2-methylphenol	UG/L	25	25	U	UJ	NA
MW-19	4-Bromophenyl-phenylether	UG/L	10	10	U	UJ	NA
MW-19	4-Chloro-3-methylphenol	UG/L	10	10	U	UJ	NA
MW-19	4-Chloroaniline	UG/L	10	10	U	UJ	NA
MW-19	4-Chlorophenyl-phenyl ether	UG/L	10	10	U	UJ	NA
MW-19	4-Methylphenol	UG/L	10	10	U	UJ	. NA
MW-19	4-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-19	4-Nitrophenol	UG/L	25	25	Ü	UJ	NA
MW-19	Acenaphthene	UG/L	10	10	U	UJ	NA
MW-19	Acenaphthylene	UG/L	10	10	U	UJ	NA
MW-19	Anthracene	UG/L	: 10	10	U	UJ	NA
MW-19	Benzo(a)anthracene	UG/L	10	10	, U	UJ	· NA
MW-19	Benzo(a)pyrene	UG/L	10	10	U	UJ	NA
MW-19	Benzo(b)fluoranthene	UG/L	10	10	U	UJ	NA
MW-19	Benzo(g,h,i)perylene	UG/L	10	10	U	UJ	NA
MW-19	Benzo(k)fluoranthene	UG/L	10	10	U	UJ	NA
MW-19	Bis(2-chloroethoxy)methane	UG/L	10	10	U	UJ	NA
MW-19	bis(2-chloroethyl) ether	UG/L	12	23		J	0.01
MW-19	Bis(2-ethylhexyl)phthalate	UG/L	14	1		J	0.01
MW-19	Butylbenzylphthalate	UG/L	10	10	U	UJ	NA
MW-19	Carbazole	UG/L	10	10	Ü	UJ	NA
MW-19	Chrysene	UG/L	10	10	U	UJ	NA
MW-19	Di-n-butylphthalate	UG/L	10	10	U	UJ	NA
MW-19	Di-n-octylphthalate	UG/L	10	10	U	UJ	NA
MW-19	Dibenzo(a,h)anthracene	UG/L	10	10	Ŭ	UJ	NA
MW-19	Dibenzofuran	UG/L	10	10	Ū	Ü	NA
MW-19	Diethylphthalate	UG/L	10	10	U	UJ	NA
MW-19	Dimethylphthalate	UG/L	10	10	Ū	UJ	NA
MW-19	Fluoranthene	UG/L	10	10	Ū	UJ	NA
MW-19	Fluorene	UG/L	10	10	U	UJ	NA
	1	T 20,27				1	

BOLD = Exceedance

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
<u></u>	<u> </u>		during Baseline	Result	LQ	DQ	Detect Limit
MW-19	Hexachlorobenzene	UG/L	10	10	U	UJ	NA
MW-19	Hexachlorobutadiene	UG/L	10	10	U	UJ	NA
MW-19	Hexachlorocyclopentadiene	UG/L	10	10	U	UJ	NA
MW-19	Hexachloroethane	UG/L	10	10	U	UJ	NA
MW-19	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U	UJ	NA
MW-19	Isophorone	UG/L	10	10	U	UJ	NA
MW-19	N-Nitroso-di-n-propylamine	UG/L	10	10	U	UJ	NA
MW-19	N-Nitrosodiphenylamine	UG/L	10	10	U	UJ	NA
MW-19	Naphthalene	UG/L	10	10	U	UJ	NA
MW-19	Nitrobenzene	UG/L	10	· 10	U	UJ	NA
MW-19	Pentachlorophenol	UG/L	25	25	U	UĴ	NA
MW-19	Phenanthrene	UG/L	10	10	U	UJ	NA
MW-19	Phenol	UG/L	31	10	U	UJ	NA
MW-19	Pyrene	UG/L	10	10	υ	UJ	NA
MW-23	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-23	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-23	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-23	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-23	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-23	2,4,5-Trichlorophenol	UG/L	25	25	U		NA
MW-23	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-23	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-23	2,4-Dimethylphenol	UG/L	10	_10	U		NA
MW-23	2,4-Dinitrophenol	UG/L	25	25	U		NA
MW-23	2,4-Dinitrotoluene	UG/L	10	_10	U		NA
MW-23	2,6-Dinitrotoluene	UG/L	10	_10	U_		NA
MW-23	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-23	2-Chlorophenol	UG/L	10	10	· U		NA
MW-23	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-23	2-Methylphenol	UG/L	10	10	Ŭ_		NA
MW-23	2-Nitroaniline	UG/L	25	25	U_		NA
MW-23	2-Nitrophenol	UG/L	10	10	U		NA
MW-23	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-23	3-Nitroaniline	UG/L	25	25	U		NA
MW-23	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-23	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-23	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-23	4-Chloroaniline	UG/L	10	10	U		NA
MW-23	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-23	4-Methylphenol	UG/L	10	10	U		NA
MW-23	4-Nitroaniline	UG/L	25	25	U		NA
MW-23	4-Nitrophenol	UG/L	25	25	U		NA
MW-23	Acenaphthene	UG/L	10	10	U		NA
MW-23	Acenaphthylene	UG/L	10	10	U		NA
MW-23	Anthracene	UG/L	10	10	U		NA
MW-23	Benzo(a)anthracene	UG/L	10	10 .	U		NA

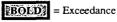
**BOED** = Exceedance NA = Not Applicable

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Highest Detect		Current	Event	<del></del>	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-23	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-23	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-23	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-23	Benzo(k)fluoranthene	UG/L	- 10	10	U		NA
MW-23	Bis(2-chloroethoxy)methane	UG/L	. 10	10	U		NA
MW-23	bis(2-chloroethyl) ether	UG/L	10	10	· U		NA
MW-23	Bis(2-ethylhexyl)phthalate	UG/L	10	10	Ū		NA
MW-23	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-23	Carbazole	UG/L	10	10	· U		NA
MW-23	Chrysene	UG/L	10 .	10	U		NA
MW-23	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-23	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-23	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-23	Dibenzofuran	UG/L	10	10	U		NA
MW-23	Diethylphthalate	UG/L	10	10	U		NA
MW-23	Dimethylphthalate	UG/L	10	10	U		NA
MW-23	Fluoranthene	UG/L	10	10	U		NA
MW-23	Fluorene	UG/L	10	10	U		NA
MW-23	Hexachlorobenzene	UG/L	10	10	U		NA
MW-23	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-23	Hexachlorocyclopentadiene	UG/L	10	10	· U		NA
MW-23	Hexachloroethane	UG/L	10	10	U		NA
MW-23	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-23	Isophorone	UG/L	10	10	U		NA
MW-23	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-23	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-23	Naphthalene	UG/L	10	10	U		NA
MW-23	Nitrobenzene	UG/L	10	10	U		NA
MW-23	Pentachlorophenol	UG/L	25	25	U	UJ	NA
MW-23	Phenanthrene	UG/L	10	10	U	·	NA
MW-23	Phenol	UG/L	30	10	U		NA
MW-23	Pyrene	UG/L	10	10	U		NA
MW-24	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-24	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-24	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-24	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-24	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	Ü		NA
MW-24	2,4,5-Trichlorophenol	UG/L	25	25	U	1	NA
MW-24	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-24	2,4-Dichlorophenol	UG/L	10	10	U	1	NA
MW-24	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-24	2,4-Dinitrophenol	UG/L	25	25	Ū	<del> </del>	NA_
MW-24	2,4-Dinitrotoluene	UG/L	10	10	Ū	†	NA
MW-24	2,6-Dinitrotoluene	UG/L	10	10	Ū	<u> </u>	NA
MW-24	2-Chloronaphthalene	UG/L	10	10	U	<u> </u>	NA
MW-24	2-Chlorophenol	UG/L	10	10	U	<del> </del>	NA NA

**BOLD** = Exceedance

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-24	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-24	2-Methylphenol	UG/L	10	10	U		NA
MW-24	2-Nitroaniline	UG/L	25	25	U		NA
MW-24	2-Nitrophenol	UG/L	10	10	U		NA
MW-24	3,3'-Dichlorobenzidine	UG/L	. 10	10	U		NA
MW-24	3-Nitroaniline	UG/L	25	. 25	. U		NA
MW-24	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-24	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-24	4-Chloro-3-methylphenol	UG/L	· 10	10	· U		NA
MW-24	4-Chloroaniline	UG/L	10	10	· U		NA
MW-24	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-24	4-Methylphenol	UG/L	10	10	U		NA
MW-24	4-Nitroaniline	UG/L	25	25	U		NA
MW-24	4-Nitrophenol	UG/L	25	25	U		NA NA
MW-24	Acenaphthene	UG/L	10	10	U		_ NA
MW-24	Acenaphthylene	UG/L	10	10	U		NA
MW-24	Anthracene	UG/L	10	10	U		NA _
MW-24	Benzo(a)anthracene	UG/L	10	10	U		NA NA
MW-24	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-24	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-24	Benzo(g,h,i)perylene	UG/L	10	10	· U		NA
MW-24	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-24	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-24	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-24	Bis(2-ethylhexyl)phthalate	UG/L	10	10	U	<u></u>	NA
MW-24	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-24	Carbazole	UG/L	10	10	U		NA
MW-24	Chrysene	UG/L	10	10	U		NA
MW-24	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-24	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-24	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-24	Dibenzofuran	UG/L	10	10	U		NA
MW-24	Diethylphthalate	UG/L	10	10	U		NA
MW-24	Dimethylphthalate	UG/L	10	10	U		NA
MW-24	Fluoranthene	UG/L	10	10	Ū		NA
	Fluorene	UG/L	10	10	U	ļ	NA
MW-24	Hexachlorobenzene	UG/L	10	10	U	<u> </u>	NA
MW-24	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-24	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-24	Hexachloroethane	UG/L	10	10	U		NA
MW-24	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-24	Isophorone	UG/L	10	10	U		NA
MW-24	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-24	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-24	Naphthalene	UG/L	10	10	U		NA
MW-24	Nitrobenzene	LUG/L	10	10	U		NA



#### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-24	Pentachlorophenol	UG/L	25	25	U	UJ	NA
MW-24	Phenanthrene	UG/L	10	10	U		NA
MW-24	Phenol :	UG/L	16	10	U	l	NA
MW-24	Pyrene	UG/L	10	10	U		NA
MW-28	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-28	1,2-Dichlorobenzene	UG/L	10	10	U .		NA
MW-28	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-28	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-28	2,2'-oxybis(1-Chloropropane)	UG/L	10 ·	10	U ·		NA
MW-28	2,4,5-Trichlorophenol	UG/L	25	25	U		NA
MW-28	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-28	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-28	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-28	2,4-Dinitrophenol	UG/L	25	25	U		NA
MW-28	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-28	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-28	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-28	2-Chlorophenol	UG/L	10	10	U		NA
MW-28	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-28	2-Methylphenol	UG/L	10	10	U		NA
MW-28	2-Nitroaniline	UG/L	25	25	U		NA
MW-28	2-Nitrophenol	UG/L	10	10	U		NA
MW-28	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-28	3-Nitroaniline	UG/L	25	25	U		NA
MW-28	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-28	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-28	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-28	4-Chloroaniline	UG/L	10	10	U		NA
MW-28	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-28	4-Methylphenol	UG/L	10	10	U		NA
MW-28	4-Nitroaniline	UG/L	25	25	U		NA
MW-28	4-Nitrophenol	UG/L	25	25	U		NA
MW-28	Acenaphthene	UG/L	10	10	U		NA
MW-28	Acenaphthylene	UG/L	10	10	U		NA
MW-28	Anthracene	UG/L	10	10	U		NA
MW-28	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-28	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-28	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-28	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-28	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-28	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-28	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-28	Bis(2-ethylhexyl)phthalate	UG/L	19	2	J	J	0.01
MW-28	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-28	Carbazole	UG/L	10	10	U		NA
MW-28	Chrysene	UG/L	_ 10	10	U		NA



# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-28	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-28	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-28	Dibenzo(a,h)anthracene	UG/L	10	10	· U		NA
MW-28	Dibenzofuran	UG/L	10	10	U		NA
MW-28	Diethylphthalate	UG/L	10	10	U		NA
MW-28	Dimethylphthalate	UG/L	10	10	U		NA
MW-28	Fluoranthene	UG/L	10	10	U		NA
MW-28	Fluorene	UG/L	. 10	10	U		NA
MW-28	Hexachlorobenzene	UG/L	10	10	U	· · · ·	NA
MW-28	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-28	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-28	Hexachloroethane	UG/L	10	10	U		NA
MW-28	Indeno(1,2,3-cd)pyrene	UG/L	. 10	10	U		NA
MW-28	Isophorone	UG/L	10	10	ΰ		NA
MW-28	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-28	N-Nitrosodiphenylamine	UG/L	10	10	Ü		NA
MW-28	Naphthalene	UG/L	10	10	Ü		NA
MW-28	Nitrobenzene	UG/L	10	10	U		NA
MW-28	Pentachlorophenol	UG/L	25	25	Ü		NA
MW-28	Phenanthrene	UG/L	10	10	· U		NA
MW-28	Phenol	UG/L	75	10	U		NA
MW-28	Pyrene	UG/L	10	10	U		NA
MW-29_	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-29	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-29	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-29	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-29	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-29	2,4,5-Trichlorophenol	UG/L	25	25	U		NA
MW-29	2,4,6-Trichlorophenol	UG/L	10	10	U	-	NA
MW-29	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-29	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-29	2,4-Dinitrophenol	UG/L	25	25	U		NA
MW-29	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-29	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-29	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-29	2-Chlorophenol	UG/L	10	10	U		NA
MW-29	2-Methylnaphthalene	UG/L	10	10	Ü		NA
MW-29	2-Methylphenol	UG/L	10	10	Ū	T	NA
MW-29	2-Nitroaniline	UG/L	25	25	Ū		NA
MW-29	2-Nitrophenol	UG/L	10	10	Ū		NA
MW-29	3,3'-Dichlorobenzidine	UG/L	10	10	Ū		NA
MW-29	3-Nitroaniline	UG/L	25	25	Ü		NA
MW-29	4,6-Dinitro-2-methylphenol	UG/L	25	25	Ü	1	NA
MW-29	4-Bromophenyl-phenylether	UG/L	10	10	Ū	<del>                                     </del>	NA
MW-29	4-Chloro-3-methylphenol	UG/L	10	10	U	<del> </del>	NA
MW-29	4-Chloroaniline	UG/L	10	10	υ	<del>                                     </del>	NA NA

BOLD: = Exceedance

NA = Not Applicable

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
L			during Baseline	Result	LQ	DQ	Detect Limit
MW-29	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-29	4-Methylphenol	UG/L	10	10	U		NA
MW-29	4-Nitroaniline	UG/L	25	25	· U		NA
MW-29	4-Nitrophenol	UG/L	25	25	U ·		NA
MW-29	Acenaphthene	UG/L	10	10	U		NA
MW-29	Acenaphthylene	UG/L	10	. 10	U	ē .	NA
MW-29	Anthracene	UG/L	10	10	U		NA
MW-29	Benzo(a)anthracene	UG/L	10	10	Ü		NA
MW-29	Benzo(a)pyrene	UG/L	- 10	10	U		NA
MW-29	Benzo(b)fluoranthene	UG/L	10	10	U -		NA
MW-29	Benzo(g,h,i)perylene	UG/L	10	10	Ü		NA
MW-29	Benzo(k)fluoranthene	UG/L	10	10	Ü		NA
MW-29	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-29	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-29	Bis(2-ethylhexyl)phthalate	UG/L	27	1	JB	JВ	0.01
MW-29	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-29	Carbazole	UG/L	10	10	U		NA
MW-29	Chrysene	UG/L	10	10	U		NA
MW-29	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-29	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-29	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-29	Dibenzofuran	UG/L	10	10	U		NA
MW-29	Diethylphthalate	UG/L	10	10	U		NA
MW-29	Dimethylphthalate	UG/L	10	10	Ü		NA
MW-29	Fluoranthene	UG/L	10	10	U		NA
MW-29	Fluorene	UG/L	10	10	U		NA
MW-29	Hexachlorobenzene	UG/L	10	10	. U		NA
MW-29	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-29	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-29	Hexachloroethane	UG/L	10	10	U		NA
MW-29	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-29	Isophorone	UG/L	10	10	U		NA
MW-29	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-29	N-Nitrosodiphenylamine	UG/L	10	10	Ū		NA
MW-29	Naphthalene	UG/L	10	10	Ü		NA
MW-29	Nitrobenzene	UG/L	10	10	Ü		NA
MW-29	Pentachlorophenol	UG/L	25	25	Ü	UJ	NA
MW-29	Phenanthrene	UG/L	10	10	Ü	1 - 5,	NA
MW-29	Phenol	UG/L	43	10	Ü		NA
MW-29	Pyrene	UG/L	10	10	U	-	NA NA
MW-30	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA NA
MW-30	1,2-Dichlorobenzene	UG/L	10	10	U		NA NA
MW-30	1,3-Dichlorobenzene	UG/L	10	10	U		NA NA
MW-30	1,4-Dichlorobenzene	UG/L	10	10	U		NA NA
MW-30		UG/L UG/L	10	10	U		NA NA
MW-30 MW-30	2,2'-oxybis(1-Chloropropane) 2,4,5-Trichlorophenol		25	25	U	<del> </del>	NA NA
IVI W - 30	12,4,3-1 fichiorophenoi	UG/L		25 .	U	1	I INA

BOLD = Exceedance

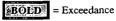
### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
	_		during Baseline	Result	LQ	DQ	Detect Limit
MW-30	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-30	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-30	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-30	2,4-Dinitrophenol	UG/L	25	25	Ü		NA
MW-30	2,4-Dinitrotoluene	UG/L	10	10	U		NA :
MW-30	2,6-Dinitrotoluene	UG/L	10	10	· U		NA
MW-30	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-30	2-Chlorophenol	UG/L	10	10	- U		NA
MW-30	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-30	2-Methylphenol	UG/L	- 10	10	U		NA
MW-30	2-Nitroaniline	UG/L	25	25	U		NA
MW-30	2-Nitrophenol	UG/L	10	10	U		NA
MW-30	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-30	3-Nitroaniline	UG/L	25	25	U		NA
MW-30	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-30	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-30	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-30	4-Chloroaniline	UG/L	10	10	U		NA
MW-30	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-30	4-Methylphenol	UG/L	10	10	U		NA
MW-30	4-Nitroaniline	UG/L	25	25	U		NA
MW-30	4-Nitrophenol	UG/L	25	25	U		NA
MW-30	Acenaphthene	UG/L	10	10	U		NA
MW-30	Acenaphthylene	UG/L	10	10	U		NA
MW-30	Anthracene	UG/L	10	10	U		NA
MW-30	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-30	Benzo(a)pyrene	UG/L	10	10 .	U		NA
MW-30	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-30	Benzo(g,h,i)perylene	UG/L	10	10	U	<u> </u>	NA
MW-30	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-30	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-30	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-30	Bis(2-ethylhexyl)phthalate	UG/L	68	1	J	J	0.01
MW-30	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-30	Carbazole	UG/L	10	10	U		NA
MW-30	Chrysene	UG/L	10	10	U		NA
MW-30	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-30	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-30	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-30	Dibenzofuran	UG/L	10	10	U		NA
MW-30	Diethylphthalate	UG/L	10	10	U		NA
MW-30	Dimethylphthalate	UG/L	10	10	U		NA
MW-30	Fluoranthene	UG/L	10	10	U		NA
MW-30	Fluorene	UG/L	10	10	U		NA
MW-30	Hexachlorobenzene	UG/L	10	10	U		NA
MW-30	Hexachlorobutadiene	UG/L	10	10 .	U		NA

BOED: = Exceedance

#### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
Ĺ		<u>'</u>	during Baseline	Result	LQ	DQ	Detect Limit
MW-30	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-30	Hexachloroethane	UG/L	10	10	U		NA.
MW-30	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-30	Isophorone	UG/L	10	10	U		NA
MW-30	N-Nitroso-di-n-propylamine	UG/L	10	10	Ü		NA
MW-30	N-Nitrosodiphenylamine	UG/L	10	. 10	U		NA
MW-30	Naphthalene	UG/L	10	10	U		NA
MW-30	Nitrobenzene	UG/L	10	10	U.		NA
MW-30	Pentachlorophenol	UG/L	25	25	U		NA
MW-30	Phenanthrene	UG/L	10	10	U		NA
MW-30	Phenol	UG/L	40	10	U		NA
MW-30	Ругепе	UG/L	10	10	U		NA
MW-31	1,2,4-Trichlorobenzene	UG/L	20	10	U	UJ	NA
MW-31	1,2-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-31	1,3-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-31	1,4-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-31	2,2'-oxybis(1-Chloropropane)	UG/L	20	10	U	UJ	NA
MW-31	2,4,5-Trichlorophenol	UG/L	50	26	U	UJ	NA
MW-31	2,4,6-Trichlorophenol	UG/L	20	10	Ū	UJ	NA NA
MW-31	2,4-Dichlorophenol	UG/L	20	10	U	UJ	NA
MW-31	2,4-Dimethylphenol	UG/L	20	10	U	UJ	NA
MW-31	2,4-Dinitrophenol	UG/L	50	26	U	UJ	NA
MW-31	2,4-Dinitrotoluene	UG/L	20	10	U	UJ	NA
MW-31	2,6-Dinitrotoluene	UG/L	20	_10	U	UJ	NA
MW-31	2-Chloronaphthalene	UG/L	20	10	U	UJ	NA
MW-31	2-Chlorophenol	UG/L	20	10	U	UJ	NA
MW-31	2-Methylnaphthalene	UG/L	20	10	U	UJ	NA
MW-31	2-Methylphenol	UG/L	20	10	U	UJ	NA
MW-31	2-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-31	2-Nitrophenol	UG/L	20	10	U	UJ	NA
MW-31	3,3'-Dichlorobenzidine	UG/L	20	10	U	UJ	NA
MW-31	3-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-31	4,6-Dinitro-2-methylphenol	UG/L	50	26	U	UJ	NA
MW-31	4-Bromophenyl-phenylether	UG/L	20	10	U	UJ	NA
MW-31	4-Chloro-3-methylphenol	UG/L	20	10	U	UJ	NA
MW-31	4-Chloroaniline	UG/L	20	10	U	UJ	NA
MW-31	4-Chlorophenyl-phenyl ether	UG/L	20	10	U	UJ	NA
MW-31	4-Methylphenol	UG/L	20	10	U	UJ	NA
MW-31	4-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-31	4-Nitrophenol	UG/L	50	26	U	UJ	NA
MW-31	Acenaphthene	UG/L	20	10	U	UJ	NA
MW-31	Acenaphthylene	UG/L	20	10	U	UJ	NA
MW-31	Anthracene	UG/L	20	10	U	UJ	NA
MW-31	Benzo(a)anthracene	UG/L	20	10	U	UJ	NA
MW-31	Benzo(a)pyrene	UG/L	20	10	U	UJ	NA
MW-31	Benzo(b)fluoranthene	UG/L	20	10	U	UJ	NA



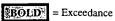
### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
		1.	during Baseline	Result	LQ	DQ	Detect Limit
MW-31	Benzo(g,h,i)perylene	UG/L	20	_10	U	UJ	NA
MW-31	Benzo(k)fluoranthene	UG/L	20	10	U	UJ	NA
MW-31	Bis(2-chloroethoxy)methane	UG/L	20	10	U	UJ	NA
MW-31	bis(2-chloroethyl) ether	UG/L	20	10	U	UJ	NA
MW-31	Bis(2-ethylhexyl)phthalate	UG/L	20	2	J	J	0.01
MW-31	Butylbenzylphthalate	UG/L	20	10	U	UJ	NA
MW-31	Carbazole	UG/L	20	10	U	UJ	NA
MW-31	Chrysene	UG/L	20	10	U	UJ	NA
MW-31	Di-n-butylphthalate	UG/L	20	10	υ	·UJ	NA
MW-31	Di-n-octylphthalate	UG/L	20	10	U	·UJ	NA
MW-31	Dibenzo(a,h)anthracene	UG/L	20	10	U	UJ	NA
MW-31	Dibenzofuran	UG/L	20	10	U	UJ	NA
MW-31	Diethylphthalate	UG/L	20	10	U	ÚJ	NA
MW-31	Dimethylphthalate	UG/L	20	10	U	UJ	NA
MW-31	Fluoranthene	UG/L	20	10	U	UJ	NA
MW-31	Fluorene	UG/L	20	10	U	UJ	NA
MW-31	Hexachlorobenzene	UG/L	20	10	Ū	UJ	NA
MW-31	Hexachlorobutadiene	UG/L	20	10	U	UJ	NA
MW-31	Hexachlorocyclopentadiene	UG/L	20	10	U	UJ	NA
MW-31	Hexachloroethane	UG/L	20	10	U	UJ	NA
MW-31	Indeno(1,2,3-cd)pyrene	UG/L	20	10	U	UJ	NA
MW-31	Isophorone	UG/L	20	10	U ii	UJ	NA
MW-31	N-Nitroso-di-n-propylamine	UG/L	20	10	U	UJ	NA
MW-31	N-Nitrosodiphenylamine	UG/L	20	10	U	UJ	NA
MW-31	Naphthalene	UG/L	20	10	U	UJ	NA
MW-31	Nitrobenzene	UG/L	20	10	U	UJ	NA
MW-31	Pentachlorophenol	UG/L	50	26	U	UJ	NA ·
MW-31	Phenanthrene	UG/L	20 ·	10	U	UJ	NA
MW-31	Phenol	UG/L	130	10	U	UJ	NA
MW-31	Pyrene	UG/L	20	10	U	UJ	NA
MW-32	1,2,4-Trichlorobenzene	UG/L	20	10	U	UJ	NA
MW-32	1,2-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-32	1,3-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-32	1,4-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-32	2,2'-oxybis(1-Chloropropane)	UG/L	20	10	U	UJ	NA
MW-32	2,4,5-Trichlorophenol	UG/L	50	26	U	UJ	NA
MW-32	2,4,6-Trichlorophenol	UG/L	20	10	U	UJ	NA
MW-32	2,4-Dichlorophenol	UG/L	20	10	U	UJ	NA
MW-32	2,4-Dimethylphenol	UG/L	20	10	U	UJ	NA
MW-32	2,4-Dinitrophenol	UG/L	50	26	Ü	UJ	NA
MW-32	2,4-Dinitrotoluene	UG/L	20	. 10	Ū	UJ	NA
MW-32	2,6-Dinitrotoluene	UG/L	20	10	Ū	UJ	NA
MW-32	2-Chloronaphthalene	UG/L	20	10	Ü	UJ	NA
MW-32	2-Chlorophenol	UG/L	20	10	Ü	UJ	NA
MW-32	2-Methylnaphthalene	UG/L	20	10	Ū	UJ	NA
MW-32	2-Methylphenol	UG/L	20	10	U	UJ	NA

BOLD = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

MW-32   2-Nitroaniline	Well	Analyte	Units	Highest Detect		Current	Event	
MW-32         2-Nitrophenol         UG/L         20         10         U         UJ         NA           MW-32         3,3-Dichlorobenzidine         UG/L         20         10         U         UJ         NA           MW-32         4,6-Dinitro-2-methylphenol         UG/L         50         26         U         UJ         NA           MW-32         4,6-Dinitro-2-methylphenol         UG/L         20         10         U         UJ         NA           MW-32         4-Chloro-3-methylphenol         UG/L         20         10         U         UJ         NA           MW-32         4-Chlorophenol-phenyl-phenyl ether         UG/L         20         10         U         UJ         NA           MW-32         4-Methylphenol         UG/L         20         10         U         UJ         NA           MW-32         4-Methylphenol         UG/L         50         26         U         UJ         NA           MW-32         4-Nitroaniline         UG/L         50         26         U         UJ         NA           MW-32         Acenaphthene         UG/L         50         10         U         UJ         NA           MW-32				during Baseline	Result			Detect Limit
MW-32   3,3-Dichlorobenzidine   UG/L   20   10   U   UJ   NA   MW-32   3,N-litroaniline   UG/L   50   26   U   UJ   NA   MW-32   3,4-Dintro-2-methylphenol   UG/L   50   26   U   UJ   NA   MW-32   4-Bromophenyl-phenylether   UG/L   20   10   U   UJ   NA   MW-32   4-Chloro-3-methylphenol   UG/L   20   10   U   UJ   NA   MW-32   4-Chloro-3-methylphenol   UG/L   20   10   U   UJ   NA   MW-32   4-Chlorophenyl-phenylether   UG/L   20   10   U   UJ   NA   MW-32   4-Chlorophenyl-phenylether   UG/L   20   10   U   UJ   NA   MW-32   4-Chlorophenyl-phenylether   UG/L   20   10   U   UJ   NA   MW-32   4-Nethylphenol   UG/L   20   10   U   UJ   NA   MW-32   4-Nethylphenol   UG/L   20   26   U   UJ   NA   MW-32   4-Nitrophenol   UG/L   50   26   U   UJ   NA   MW-32   4-Nitrophenol   UG/L   20   10   U   UJ   NA   MW-32   4-Nitrophenol   UG/L   20   10   U   UJ   NA   MW-32   Acenaphthene   UG/L   20   10   U   UJ   NA   MW-32   Acenaphthene   UG/L   20   10   U   UJ   NA   MW-32   Acenaphthene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(a)anthracene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(a)pyrene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(a)pyrene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(a)pyrene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(a)pyrene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(a)pyrene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(a)pyrene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(a)pyrene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(a)pyrene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(a)pyrene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(a)pyrene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(a)pyrene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(a)pyrene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(a)pyrene   UG/L   20   10   U   UJ   NA   WW-32   Benzo(a)pyrene   UG/L   20   10   U   UJ   NA   WW-32   Benzo(a)pyrene   UG/L   20   10   U   UJ   NA   WW-32   Dienzolaphylatalate   UG/L   20   10   U   UJ   NA   WW-32   U   UJ   NA   WW-32   Dienzolaphylatalate   UG/	MW-32	2-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-32 3         2-Nitroaniline         UG/L SO         26         U UJ NA           MW-32 4 (A-Dinitro-2-methylphenol UG/L SO         26         U UJ NA           MW-32 4-Ebromophenyl-phenylether UG/L 20         10         U UJ NA           MW-32 4-Chloro-3-methylphenol UG/L 20         10         U UJ NA           MW-32 4-Chlorophenyl-phenyl ether UG/L 20         10         U UJ NA           MW-32 4-Chlorophenyl-phenyl ether UG/L 20         10         U UJ NA           MW-32 4-Methylphenol UG/L 20         10         U UJ NA           MW-32 4-Methylphenol UG/L 50         26         U UJ NA           MW-32 4-Nitrophenol UG/L 50         10         U UJ NA           MW-32 4-Nitrophenol UG/L 50         10         U UJ NA           MW-32 4-Nitrophenol UG/L 50         10         U UJ NA           MW-32 5-Nitrophenol UG/L 50         10         U UJ NA           MW-32 6-Renzo(ghtiphenol UG/L 50         10	MW-32	2-Nitrophenol	UG/L	20	10	U	UJ	NA
MW-32         4.6-Dinitro-2-methylphenol         UG/L         50         26         U         UJ         NA           MW-32         4-Bromophenyl-phenylether         UG/L         20         10         U         UJ         NA           MW-32         4-Chloro-aniline         UG/L         20         10         U         UJ         NA           MW-32         4-Chlorophenyl-phenyl ether         UG/L         20         10         U         UJ         NA           MW-32         4-Methylphenol         UG/L         20         10         U         UJ         NA           MW-32         4-Nitrophenol         UG/L         50         26         U         UJ         NA           MW-32         4-Nitrophenol         UG/L         50         26         U         UJ         NA           MW-32         Acenaphthene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(a)anthracene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(a)anthracene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(a)	MW-32	3,3'-Dichlorobenzidine	UG/L	20	10	U	UJ	NA
MW-32	MW-32	3-Nitroaniline		50	26	U	UJ	NA
MW-32 4 - Bromophenyl-phenylether         UG/L         20         10         U         UJ         NA           MW-32 4 - Chloroaniline         UG/L         20         10         U         UJ         NA           MW-32 4 - Chlorophenyl-phenyl ether         UG/L         20         10         U         UJ         NA           MW-32 4 - Methylphenol         UG/L         20         10         U         UJ         NA           MW-32 4 - Methylphenol         UG/L         50         26         U         UJ         NA           MW-32 4 - Nitrophenol         UG/L         50         26         U         UJ         NA           MW-32 4 - Nitrophenol         UG/L         50         26         U         UJ         NA           MW-32 4 - Nitrophenol         UG/L         20         10         U         UJ         NA           MW-32 4 - Acenaphthene         UG/L         20         10         U         UJ         NA           MW-32 2 Benzo(a)parene         UG/L         20         10         U         UJ         NA           MW-32 2 Benzo(a)pyrene         UG/L         20         10         U         UJ         NA           MW-32 3 Benzo(a)pyren						U		
MW-32         4-Chloro-3-methylphenol         UG/L         20         10         U         UJ         NA           MW-32         4-Chlorophenyl-phenyl ether         UG/L         20         10         U         UJ         NA           MW-32         4-Methylphenol         UG/L         20         10         U         UJ         NA           MW-32         4-Nitrophenol         UG/L         50         26         U         UJ         NA           MW-32         4-Nitrophenol         UG/L         20         10         U         UJ         NA           MW-32         4-Nitrophenol         UG/L         20         10         U         UJ         NA           MW-32         Acenaphthene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(a)pytene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(a)pytene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(g)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(g,hipperylene				20		U	UJ	
MW-32         4-Chloropenyl-phenyl ether         UG/L         20         10         U         UJ         NA           MW-32         4-Methylphenol         UG/L         20         10         U         UJ         NA           MW-32         4-Methylphenol         UG/L         50         26         U         UJ         NA           MW-32         4-Nitrophenol         UG/L         50         26         U         UJ         NA           MW-32         A-cenaphthene         UG/L         20         10         U         UJ         NA           MW-32         Acenaphthylene         UG/L         20         10         U         UJ         NA           MW-32         Acenaphthylene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(a)anthracene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(b)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(k)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(k)fluoranthene <td>MW-32</td> <td></td> <td><del></del></td> <td>20</td> <td>10</td> <td>. U</td> <td>UJ</td> <td>NA</td>	MW-32		<del></del>	20	10	. U	UJ	NA
MW-32         4-Methylphenol         UG/L         20         10         U         UJ         NA           MW-32         4-Nitropanline         UG/L         50         26         U         UJ         NA           MW-32         Acenaphthene         UG/L         20         10         U         UJ         NA           MW-32         Acenaphthene         UG/L         20         10         U         UJ         NA           MW-32         Acenaphtylene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(a)anthracene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(a)pyrene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(b)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(s)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(s)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-chloroethyn)benthale	MW-32	4-Chloroaniline	UG/L	20	10	U	UJ	NA
MW-32         4-Methylphenol         UG/L         20         10         U         UJ         NA           MW-32         4-Nitropaniline         UG/L         50         26         U         UJ         NA           MW-32         A-Viitrophenol         UG/L         50         26         U         UJ         NA           MW-32         Acenaphthene         UG/L         20         10         U         UJ         NA           MW-32         Acenaphthylene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(a)anthracene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(a)pyrene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(s)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(s)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(s)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-chlorechy)fluoranthene<	MW-32	4-Chlorophenyl-phenyl ether	UG/L	20	10 ·	U	UJ	NA
MW-32         4-Nitrophenol         UG/L         50         26         U         UJ         NA           MW-32         4-Nitrophenol         UG/L         50         26         U         UJ         NA           MW-32         Acenaphthene         UG/L         20         10         U         UJ         NA           MW-32         Acenaphthylene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(a)anthracene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(a)pyrene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(b)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(k)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-chloroethoxy)methane         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-chloroethoxy)methane         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-chloroet	MW-32		UG/L	20	10 ··· ·	U	UJ	NA ·
MW-32   4-Nitrophenol   UG/L   50   26   U   UJ   NA   MW-32   Acenaphthene   UG/L   20   10   U   UJ   NA   MW-32   Acenaphthylene   UG/L   20   10   U   UJ   NA   MW-32   Anthracene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(a)anthracene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(a)anthracene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(a)pyrene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(b)fluoranthene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(b)fluoranthene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(c)fluoranthene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(c)fluoranthene   UG/L   20   10   U   UJ   NA   MW-32   Benzo(c)fluoranthene   UG/L   20   10   U   UJ   NA   MW-32   Bis(2-chloreethoxy)methane   UG/L   20   10   U   UJ   NA   MW-32   Bis(2-chloreethoxy)methane   UG/L   20   10   U   UJ   NA   MW-32   Bis(2-chloreethy) ether   UG/L   20   10   U   UJ   NA   MW-32   Bis(2-chloreethy) ether   UG/L   20   10   U   UJ   NA   MW-32   Bis(2-chlyhexyl)phthalate   UG/L   20   10   U   UJ   NA   MW-32   Carbazole   UG/L   20   10   U   UJ   NA   MW-32   Carbazole   UG/L   20   10   U   UJ   NA   MW-32   Chrysene   UG/L   20   10   U   UJ   NA   MW-32   Di-n-butylphthalate   UG/L   20   10   U   UJ   NA   MW-32   Di-n-butylphthalate   UG/L   20   10   U   UJ   NA   MW-32   Dibenzo(a,h)anthracene   UG/L   20   10   U   UJ   NA   MW-32   Dibenzofuran   UG/L   20   10   U   UJ   NA   MW-32   Dibenzofuran   UG/L   20   10   U   UJ   NA   MW-33   Dibenzofuran   UG/L   20   10   U   UJ   NA   MW-32   Dibenzofuran   UG/L   20   10   U   UJ   NA   MW-32   Dibenzofuran   UG/L   20   10   U   UJ   NA   MW-32   Dibenzofuran   UG/L   20   10   U   UJ   NA   MW-32   Dibenzofuran   UG/L   20   10   U   UJ   NA   MW-32   Hexachlorobenzene   UG/L   20   10   U   UJ   NA   MW-32   Hexachlorobenzene   UG/L   20   10   U   UJ   NA   MW-32   Hexachlorobenzene   UG/L   20   10   U   UJ   NA   MW-32   N-Nitrosodi-n-propylamine   UG/L   20   10   U   UJ   NA   MW-32   Pentachlorophenol   UG/L   20   10   U	MW-32			50	26	U	UJ	NA
MW-32         Acenaphthene         UG/L         20         10         U         UJ         NA           MW-32         Acenaphthylene         UG/L         20         10         U         UJ         NA           MW-32         Anthracene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(a)pyrene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(b)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(k)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(k)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-chlorethoxy)methane         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-chlorethoxy)methane         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-chlorethoxy)methane         UG/L         20         10         U         UJ         NA           MW-32         Bis(2	MW-32	4-Nitrophenol		50	26	U	UJ	NA
MW-32         Acenaphthylene         UG/L         20         10         U         UJ         NA           MW-32         Anthracene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(a)anthracene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(b)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(b)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(k)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-chloroethoxy)methane         UG/L         20         10         U         UJ         NA           MW-32         Bi				20	10	U	UJ	NA
MW-32         Anthracene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(a)anthracene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(a)pyrene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(g,hi)perylene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(g,hi)perylene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(k)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(k)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-chlorethexy)methane         UG/L         20         10         U         UJ         NA           MW-32         Dis(2-cthylnexyl)phthalate         UG/L         20         10         U         UJ         NA           MW-32         Carbazole         UG/L         20         10         U         UJ         NA           MW-32         Chrysene </td <td>MW-32</td> <td></td> <td></td> <td>20</td> <td>10</td> <td>U</td> <td>UJ</td> <td>NA</td>	MW-32			20	10	U	UJ	NA
MW-32         Benzo(a)anthracene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(a)pyrene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(b)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(k)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-chloroethoxy)methane         UG/L         20         10         U         UJ         NA           MW-32         bis(2-chloroethyl) ether         UG/L         20         10         U         UJ         NA           MW-32         bis(2-chloroethyl) ether         UG/L         20         10         U         UJ         NA           MW-32         bis(2-chloroethyl) ether         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-ethylhexyl)phthalate         UG/L         20         10         U         UJ         NA           MW-32         Butylbenzylphthalate         UG/L         20         10         U         UJ         NA           <	MW-32		UG/L	20	10	U	UJ	NA
MW-32         Benzo(b)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(k,hi)perylene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(k)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-chloroethoxy)methane         UG/L         20         10         U         UJ         NA           MW-32         bis(2-chloroethyl) ether         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-ethylhexyl)phthalate         UG/L         20         10         U         UJ         NA           MW-32         Butylbenzylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Chrysene         UG/L         20         10         U         UJ         NA           MW-32         Chrysene         UG/L         20         10         U         UJ         NA           MW-32         Di-n-butylphthalate         UG/L         20         10         U         UJ         NA           MW-32	MW-32			20	10	U	UJ	NA
MW-32         Benzo(g,h,i)perylene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(g,h,i)perylene         UG/L         20         10         U         UJ         NA           MW-32         Benzo(k)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-chloroethoxy)methane         UG/L         20         10         U         UJ         NA           MW-32         bis(2-chloroethyl) ether         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-chylnexyl)phthalate         UG/L         20         10         U         UJ         NA           MW-32         Butylbenzylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Chrysene         UG/L         20         10         U         UJ         NA           MW-32         Chrysene         UG/L         20         10         U         UJ         NA           MW-32         Di-n-butylphthalate         UG/L         20         10         U         UJ         NA           MW-32	MW-32	Benzo(a)pyrene	UG/L	20	10	U	UJ	NA
MW-32         Benzo(k)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-chloroethoxy)methane         UG/L         20         10         U         UJ         NA           MW-32         bis(2-chloroethyl) ether         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-ethylexyl)phthalate         UG/L         20         10         U         UJ         NA           MW-32         Butylbenzylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Carbazole         UG/L         20         10         U         UJ         NA           MW-32         Chrysene         UG/L         20         10         U         UJ         NA           MW-32         Di-n-butylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Di-n-octylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Dibenzofuran         UG/L         20         10         U         UJ         NA           MW-32         Dietelyl	MW-32		UG/L	20	10	U	UJ	NA
MW-32         Benzo(k)fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-chloroethoxy)methane         UG/L         20         10         U         UJ         NA           MW-32         bis(2-chloroethyl) ether         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-chlylhexyl)phthalate         UG/L         20         10         U         UJ         NA           MW-32         Butylbenzylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Carbazole         UG/L         20         10         U         UJ         NA           MW-32         Chrysene         UG/L         20         10         U         UJ         NA           MW-32         Di-n-butylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Di-n-octylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Dibenzofuan         UG/L         20         10         U         UJ         NA           MW-32         Dietehyl	MW-32	Benzo(g,h,i)perylene	UG/L	20	10	U	UJ	NA
MW-32         Bis(2-chloroethoxy)methane         UG/L         20         10         U         UJ         NA           MW-32         bis(2-chloroethyl) ether         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-chlylhexyl)phthalate         UG/L         31         2         J         J         0,01           MW-32         Butylbenzylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Carbazole         UG/L         20         10         U         UJ         NA           MW-32         Chrysene         UG/L         20         10         U         UJ         NA           MW-32         Di-n-butylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Di-n-octylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Dibenzo(a,h)anthracene         UG/L         20         10         U         UJ         NA           MW-32         Dibenzo(a,h)anthracene         UG/L         20         10         U         UJ         NA           MW-32	MW-32		UG/L	20	10	U	UJ	NA
MW-32         bis(2-chloroethyl) ether         UG/L         20         10         U         UJ         NA           MW-32         Bis(2-ethylhexyl)phthalate         UG/L         31         2         J         J         0,01           MW-32         Butylbenzylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Carbazole         UG/L         20         10         U         UJ         NA           MW-32         Chrysene         UG/L         20         10         U         UJ         NA           MW-32         Di-n-butylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Di-n-octylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Dibenzo(a,h)anthracene         UG/L         20         10         U         UJ         NA           MW-32         Dibenzofuran         UG/L         20         10         U         UJ         NA           MW-32         Diethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Fluoranthene <td></td> <td></td> <td></td> <td>20</td> <td>10</td> <td>U</td> <td>UJ</td> <td>NA</td>				20	10	U	UJ	NA
MW-32         Butylbenzylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Carbazole         UG/L         20         10         U         UJ         NA           MW-32         Chrysene         UG/L         20         10         U         UJ         NA           MW-32         Di-n-butylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Di-n-octylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Dibenzo(a,h)anthracene         UG/L         20         10         U         UJ         NA           MW-32         Dibenzofuran         UG/L         20         10         U         UJ         NA           MW-32         Diethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Dimethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Dimethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Fluoranthene         U	MW-32		UG/L	20	10	U	UJ	NA
MW-32         Butylbenzylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Carbazole         UG/L         20         10         U         UJ         NA           MW-32         Chrysene         UG/L         20         10         U         UJ         NA           MW-32         Di-n-butylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Di-n-octylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Dibenzo(a,h)anthracene         UG/L         20         10         U         UJ         NA           MW-32         Dibenzofuran         UG/L         20         10         U         UJ         NA           MW-32         Diethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Dimethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Dimethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Fluoranthene         U	MW-32	Bis(2-ethylhexyl)phthalate	UG/L	31	2	J	J	0.01
MW-32         Carbazole         UG/L         20         10         U         UJ         NA           MW-32         Chrysene         UG/L         20         10         U         UJ         NA           MW-32         Di-n-butylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Di-n-octylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Dibenzo(a,h)anthracene         UG/L         20         10         U         UJ         NA           MW-32         Dibenzofuran         UG/L         20         10         U         UJ         NA           MW-32         Diethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Piuoranthene         UG/L         20         10         U         UJ         NA           MW-32         Fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Fluoranthene         UG/L         <	MW-32		UG/L	20	10	U	UJ	
MW-32         Di-n-butylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Di-n-octylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Dibenzo(a,h)anthracene         UG/L         20         10         U         UJ         NA           MW-32         Dibenzofuran         UG/L         20         10         U         UJ         NA           MW-32         Diethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Dimethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Pluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Fluoranthene         UG/L         20         10         U         UJ         NA            MW-32         Hexachlorobenzene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorobutadiene	MW-32		UG/L	20	10	U	UJ	. NA
MW-32         Di-n-octylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Dibenzo(a,h)anthracene         UG/L         20         10         U         UJ         NA           MW-32         Dibenzofuran         UG/L         20         10         U         UJ         NA           MW-32         Diethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Dimethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Pluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Fluorene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorobenzene         UG/L	MW-32	Chrysene	UG/L	20	10	U	UJ	NA
MW-32         Dibenzo(a,h)anthracene         UG/L         20         10         U         UJ         NA           MW-32         Dibenzofuran         UG/L         20         10         U         UJ         NA           MW-32         Diethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Dimethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Fluorene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorobenzene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorobutadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorocyclopentadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachloroethane         UG/L         20         10         U         UJ         NA           MW-32         Indeno(1,2,3-cd)pyrene <td>MW-32</td> <td>Di-n-butylphthalate</td> <td>UG/L</td> <td>20</td> <td>10</td> <td>U</td> <td>UJ</td> <td>NA</td>	MW-32	Di-n-butylphthalate	UG/L	20	10	U	UJ	NA
MW-32         Dibenzofuran         UG/L         20         10         U         UJ         NA           MW-32         Diethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Dimethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Fluorene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorobenzene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorobutadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorocyclopentadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorocyclopentadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorocyclopentadiene         UG/L         20         10         U         UJ         NA           MW-32         Indeno(1,2,3-c	MW-32	Di-n-octylphthalate	UG/L	20	10	U _	UJ	NA
MW-32         Dibenzofuran         UG/L         20         10         U         UJ         NA           MW-32         Diethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Dimethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Fluorene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorobenzene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorobutadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorocyclopentadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorocyclopentadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorochane         UG/L         20         10         U         UJ         NA           MW-32         Indeno(1,2,3-cd)pyrene </td <td>MW-32</td> <td>Dibenzo(a,h)anthracene</td> <td>UG/L</td> <td>20</td> <td>10</td> <td>U</td> <td>UJ</td> <td>NA</td>	MW-32	Dibenzo(a,h)anthracene	UG/L	20	10	U	UJ	NA
MW-32         Dimethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Fluorene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorobenzene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorobutadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorocyclopentadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorocyclopentadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorocyclopentadiene         UG/L         20         10         U         UJ         NA           MW-32         Indeno(1,2,3-cd)pyrene         UG/L         20         10         U         UJ         NA           MW-32         Isophorone         UG/L         20         10         U         UJ         NA           MW-32         N-Nitrosod	MW-32		UG/L	20	10	U	UJ	NA
MW-32         Dimethylphthalate         UG/L         20         10         U         UJ         NA           MW-32         Fluoranthene         UG/L         20         10         U         UJ         NA           MW-32         Fluorene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorobenzene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorobutadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorocyclopentadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorocethane         UG/L         20         10         U         UJ         NA           MW-32         Indeno(1,2,3-cd)pyrene         UG/L         20         10         U         UJ         NA           MW-32         Isophorone         UG/L         20         10         U         UJ         NA           MW-32         N-Nitroso-di-n-propylamine         UG/L         20         10         U         UJ         NA           MW-32         Naphthalene	MW-32	Diethylphthalate	UG/L	20	10	U	UJ	NA
MW-32         Fluorene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorobenzene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorobutadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorocyclopentadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorocethane         UG/L         20         10         U         UJ         NA           MW-32         Indeno(1,2,3-cd)pyrene         UG/L         20         10         U         UJ         NA           MW-32         Isophorone         UG/L         20         10         U         UJ         NA           MW-32         N-Nitroso-di-n-propylamine         UG/L         20         10         U         UJ         NA           MW-32         N-Nitrosodiphenylamine         UG/L         20         10         U         UJ         NA           MW-32         Naphthalene         UG/L         20         10         U         UJ         NA           MW-32         Pentachloroph	MW-32	^	UG/L	20	10	U	UJ	NA
MW-32         Hexachlorobenzene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorobutadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorocyclopentadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorocethane         UG/L         20         10         U         UJ         NA           MW-32         Indeno(1,2,3-cd)pyrene         UG/L         20         10         U         UJ         NA           MW-32         Isophorone         UG/L         20         10         U         UJ         NA           MW-32         N-Nitroso-di-n-propylamine         UG/L         20         10         U         UJ         NA           MW-32         N-Nitrosodiphenylamine         UG/L         20         10         U         UJ         NA           MW-32         Naphthalene         UG/L         20         10         U         UJ         NA           MW-32         Pentachlorophenol         UG/L         50         26         U         UJ         NA	MW-32	Fluoranthene	UG/L	20	10	U	UJ	NA
MW-32         Hexachlorobutadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorocyclopentadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachlorocethane         UG/L         20         10         U         UJ         NA           MW-32         Indeno(1,2,3-cd)pyrene         UG/L         20         10         U         UJ         NA           MW-32         Isophorone         UG/L         20         10         U         UJ         NA           MW-32         N-Nitroso-di-n-propylamine         UG/L         20         10         U         UJ         NA           MW-32         N-Nitrosodiphenylamine         UG/L         20         10         U         UJ         NA           MW-32         Naphthalene         UG/L         20         10         U         UJ         NA           MW-32         Nitrobenzene         UG/L         20         10         U         UJ         NA           MW-32         Pentachlorophenol         UG/L         50         26         U         UJ         NA	MW-32	Fluorene	UG/L	20	10	U	UJ	NA
MW-32         Hexachlorocyclopentadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachloroethane         UG/L         20         10         U         UJ         NA           MW-32         Indeno(1,2,3-cd)pyrene         UG/L         20         10         U         UJ         NA           MW-32         Isophorone         UG/L         20         10         U         UJ         NA           MW-32         N-Nitroso-di-n-propylamine         UG/L         20         10         U         UJ         NA           MW-32         N-Nitrosodiphenylamine         UG/L         20         10         U         UJ         NA           MW-32         Naphthalene         UG/L         20         10         U         UJ         NA           MW-32         Nitrobenzene         UG/L         20         10         U         UJ         NA           MW-32         Pentachlorophenol         UG/L         50         26         U         UJ         NA	MW-32	Hexachlorobenzene	UG/L	20	10	U	UJ	NA
MW-32         Hexachlorocyclopentadiene         UG/L         20         10         U         UJ         NA           MW-32         Hexachloroethane         UG/L         20         10         U         UJ         NA           MW-32         Indeno(1,2,3-cd)pyrene         UG/L         20         10         U         UJ         NA           MW-32         Isophorone         UG/L         20         10         U         UJ         NA           MW-32         N-Nitroso-di-n-propylamine         UG/L         20         10         U         UJ         NA           MW-32         N-Nitrosodiphenylamine         UG/L         20         10         U         UJ         NA           MW-32         Naphthalene         UG/L         20         10         U         UJ         NA           MW-32         Nitrobenzene         UG/L         20         10         U         UJ         NA           MW-32         Pentachlorophenol         UG/L         50         26         U         UJ         NA	MW-32		+	<del>                                     </del>		U	UJ	<del>                                     </del>
MW-32         Hexachloroethane         UG/L         20         10         U         UJ         NA           MW-32         Indeno(1,2,3-cd)pyrene         UG/L         20         10         U         UJ         NA           MW-32         Isophorone         UG/L         20         10         U         UJ         NA           MW-32         N-Nitroso-di-n-propylamine         UG/L         20         10         U         UJ         NA           MW-32         N-Nitrosodiphenylamine         UG/L         20         10         U         UJ         NA           MW-32         Naphthalene         UG/L         20         10         U         UJ         NA           MW-32         Nitrobenzene         UG/L         20         10         U         UJ         NA           MW-32         Pentachlorophenol         UG/L         50         26         U         UJ         NA	•						<del></del>	
MW-32         Indeno(1,2,3-cd)pyrene         UG/L         20         10         U         UJ         NA           MW-32         Isophorone         UG/L         20         10         U         UJ         NA           MW-32         N-Nitroso-di-n-propylamine         UG/L         20         10         U         UJ         NA           MW-32         N-Nitrosodiphenylamine         UG/L         20         10         U         UJ         NA           MW-32         Naphthalene         UG/L         20         10         U         UJ         NA           MW-32         Nitrobenzene         UG/L         20         10         U         UJ         NA           MW-32         Pentachlorophenol         UG/L         50         26         U         UJ         NA	<del></del>		<del></del>	<del></del>		<del></del>	+	
MW-32         Isophorone         UG/L         20         10         U         UJ         NA           MW-32         N-Nitroso-di-n-propylamine         UG/L         20         10         U         UJ         NA           MW-32         N-Nitrosodiphenylamine         UG/L         20         10         U         UJ         NA           MW-32         Naphthalene         UG/L         20         10         U         UJ         NA           MW-32         Nitrobenzene         UG/L         20         10         U         UJ         NA           MW-32         Pentachlorophenol         UG/L         50         26         U         UJ         NA			_					<del></del>
MW-32         N-Nitroso-di-n-propylamine         UG/L         20         10         U         UJ         NA           MW-32         N-Nitrosodiphenylamine         UG/L         20         10         U         UJ         NA           MW-32         Naphthalene         UG/L         20         10         U         UJ         NA           MW-32         Nitrobenzene         UG/L         20         10         U         UJ         NA           MW-32         Pentachlorophenol         UG/L         50         26         U         UJ         NA			<del></del>			+	<del></del>	
MW-32         N-Nitrosodiphenylamine         UG/L         20         10         U         UJ         NA           MW-32         Naphthalene         UG/L         20         10         U         UJ         NA           MW-32         Nitrobenzene         UG/L         20         10         U         UJ         NA           MW-32         Pentachlorophenol         UG/L         50         26         U         UJ         NA			<del></del>	<del></del>				<del> </del>
MW-32         Naphthalene         UG/L         20         10         U         UJ         NA           MW-32         Nitrobenzene         UG/L         20         10         U         UJ         NA           MW-32         Pentachlorophenol         UG/L         50         26         U         UJ         NA								
MW-32         Nitrobenzene         UG/L         20         10         U         UJ         NA           MW-32         Pentachlorophenol         UG/L         50         26         U         UJ         NA			_				<del>•                                      </del>	
MW-32 Pentachlorophenol UG/L 50 26 U UJ NA								<del></del>
	<del></del>	<del> </del>	<del></del>			<del></del>	<del></del>	
	MW-32	Phenanthrene	UG/L	20	10	Ū	UJ	NA



## American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		CurrentEvent		
		<u> </u>	during Baseline	Result	LQ	DQ	Detect Limit
MW-32	Phenol	UG/L	110	10	U	UJ	NA
MW-32	Pyrene	UG/L	20	10	U	UJ	NA
MW-33	1,2,4-Trichlorobenzene	UG/L	20	10	U		NA
MW-33	1,2-Dichlorobenzene	UG/L	20	10	U		NA
MW-33	1,3-Dichlorobenzene	UG/L	20	10	U		NA
MW-33	1,4-Dichlorobenzene	UG/L	20	. 10	U		NA .
MW-33	2,2'-oxybis(1-Chloropropane)	UG/L	20	10	U		NA
MW-33	2,4,5-Trichlorophenol	UG/L	50	25	U		NA .
MW-33	2,4,6-Trichlorophenol	UG/L	20	10	U		NA
MW-33	2,4-Dichlorophenol	UG/L_	20	10	U		NA
MW-33	2,4-Dimethylphenol	UG/L	20	_10	U		NA
MW-33	2,4-Dinitrophenol	UG/L	_50	25	U		NA
MW-33	2,4-Dinitrotoluene	UG/L	20	10	U		NA_
MW-33	2,6-Dinitrotoluene	UG/L	20	10	U		NA_
MW-33	2-Chloronaphthalene	UG/L	20	10	U		NA
MW-33	2-Chlorophenol	UG/L	20	_10	U		NA
MW-33	2-Methylnaphthalene	UG/L	20	10	U		NA
MW-33	2-Methylphenol	UG/L	20	10	U		NA
MW-33	2-Nitroaniline	UG/L	50	25	U		NA
MW-33	2-Nitrophenol	UG/L	20	10	U		NA
MW-33	3,3'-Dichlorobenzidine	UG/L	20	10	U		NA
MW-33	3-Nitroaniline	UG/L	50	25	U		NA
MW-33	4,6-Dinitro-2-methylphenol	UG/L	50	25	U		NA
MW-33	4-Bromophenyl-phenylether	UG/L	20	:: 10	U	<u> </u>	NA
MW-33	4-Chloro-3-methylphenol	UG/L	20	10	U		NA
MW-33	4-Chloroaniline	UG/L	20	10	U		NA
MW-33	4-Chlorophenyl-phenyl ether	UG/L	20	10	U	:	NA
MW-33	4-Methylphenol	UG/L	20	10	U		NA
MW-33	4-Nitroaniline	UG/L	50	25	U		NA
MW-33	4-Nitrophenol	UG/L	50	25	- U	<u> </u>	NA
MW-33	Acenaphthene	UG/L	20	10	U		NA
MW-33	Acenaphthylene	UG/L	20	10	U	İ	NA
MW-33	Anthracene	UG/L	20	10	U		NA
MW-33	Benzo(a)anthracene	UG/L_	20	10	U		NA
MW-33	Benzo(a)pyrene	UG/L	20	10	U		NA
MW-33	Benzo(b)fluoranthene	UG/L	20	10	U		NA
MW-33	Benzo(g,h,i)perylene	UG/L	20	10	U		NA
MW-33	Benzo(k)fluoranthene	UG/L	20	_10	U		NA
MW-33	Bis(2-chloroethoxy)methane	UG/L	20	_10	U		NA
MW-33	bis(2-chloroethyl) ether	UG/L	20	10	U		NA
MW-33	Bis(2-ethylhexyl)phthalate	UG/L	76	1	J	J	0.01
MW-33	Butylbenzylphthalate	UG/L	20	10	U		NA
MW-33	Carbazole	UG/L	20	10	U		NA
MW-33	Chrysene	UG/L	20	10	U		NA
MW-33	Di-n-butylphthalate	UG/L	20	10	U		NA
MW-33	Di-n-octylphthalate	UG/L	20	10	U		NA

BOLD = Exceedance

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
	•		during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-33	Dibenzo(a,h)anthracene	UG/L	20	10	U		NA
MW-33	Dibenzofuran	UG/L	20	10	U		NA
MW-33	Diethylphthalate	UG/L	20	10	U		NA
MW-33	Dimethylphthalate	UG/L	20	10	U		NA
MW-33	Fluoranthene	UG/L	20	10	U		NA
. MW-33	Fluorene	UG/L	20	. 10	U		NA
MW-33	Hexachlorobenzene	UG/L	20	10 .	U		NA
MW-33	Hexachlorobutadiene	UG/L	20	10	U		NA .
MW-33	Hexachlorocyclopentadiene	UG/L	20 ·	10	U		NA
MW-33	Hexachloroethane	UG/L	20	10	U		NA
MW-33	Indeno(1,2,3-cd)pyrene	UG/L	20	10	U		NA
MW-33	Isophorone	UG/L	20	10	U		NA
MW-33	N-Nitroso-di-n-propylamine	UG/L	20	10	U		NA
MW-33	N-Nitrosodiphenylamine	UG/L	20	10	U		NA
MW-33	Naphthalene	UG/L	20	10	U		NA
MW-33	Nitrobenzene	UG/L	20	10	U		NA
MW-33	Pentachlorophenol	UG/L	50	25	U		NA
MW-33	Phenanthrene	UG/L	20	10	U		NA
MW-33	Phenol	UG/L	83	10	U		NA
MW-33	Pyrene	UG/L	20	10	U		NA
MW-37	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-37	1.2-Dichlorobenzene	UG/L	10	10	U		NA .
MW-37	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-37	1,4-Dichlorobenzene	UG/L	10	10	U		NA
MW-37	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-37	2.4,5-Trichlorophenol	UG/L	25	26	U		NA
MW-37	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-37	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-37	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-37	2,4-Dinitrophenol	UG/L	25	26	U		NA
MW-37	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-37	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-37	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-37	2-Chlorophenol	UG/L	10	10	Ü		NA
MW-37	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-37	2-Methylphenol	UG/L	10	10	U		NA
MW-37	2-Nitroaniline	UG/L	25	26%	U		NA
MW-37	2-Nitrophenol	UG/L	10	10	U		NA
MW-37	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-37	3-Nitroaniline	UG/L	25	26	U		NA
MW-37	4,6-Dinitro-2-methylphenol	UG/L	25	26	U		NA
MW-37	4-Bromophenyl-phenylether	UG/L	10	10	U	ļ	NA
MW-37	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-37	4-Chloroaniline	UG/L	10	10	Ū		NA
MW-37	4-Chlorophenyl-phenyl ether	UG/L	10	10	Ū	İ	NA
MW-37	4-Methylphenol	UG/L	10	10	U		NA

BOLD = Exceedance

NA = Not Applicable

## American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect	·-·-	CurrentEvent		
	_		during Baseline	Result	LQ	DQ	Detect Limit
MW-37	4-Nitroaniline	UG/L	25	26	U		NA
MW-37	4-Nitrophenol	UG/L	25	26	U		NA
MW-37	Acenaphthene	UG/L	10	10	U		NA
MW-37	Acenaphthylene	UG/L	10	10	U	i	NA
MW-37	Anthracene	UG/L	10	10	U		NA
MW-37	Benzo(a)anthracene	UG/L	10	10	U		. NA
MW-37	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-37	Benzo(b)fluoranthene	UG/L	10	10	U	·	· NA
MW-37	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-37	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-37	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-37	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-37	Bis(2-ethylhexyl)phthalate	UG/L	34	10	U		NA
MW-37	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-37	Carbazole	UG/L	10	10	U		NA
MW-37	Chrysene	UG/L	10	10	U		NA
MW-37	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-37	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-37	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-37	Dibenzofuran	UG/L	10	10	U		NA
MW-37	Diethylphthalate	UG/L	10	10	U		NA
MW-37	Dimethylphthalate	UG/L	10	10	U		NA
MW-37	Fluoranthene	UG/L	10	10	U		NA
MW-37	Fluorene	UG/L	10	10	U		NA
MW-37	Hexachlorobenzene	UG/L	10	10	U		NA
MW-37	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-37	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-37	Hexachloroethane	UG/L	10	10	U	<u> </u>	NA
MW-37	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U_		NA
MW-37	Isophorone	UG/L	10	10	U	<u>.</u>	NA
MW-37	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-37	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-37	Naphthalene	UG/L	10	10	U		NA
MW-37	Nitrobenzene	UG/L	10	10	U		NA
MW-37	Pentachlorophenol	UG/L	25	26	U	UJ	NA
MW-37	Phenanthrene	UG/L	10	10	U		NA
MW-37	Phenol	UG/L	23	10	U		NA
MW-37	Pyrene	UG/L	10	10	<u> </u>		NA
MW-38	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-38	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-38	1,3-Dichlorobenzene	UG/L	10	10	U	<u> </u>	NA
MW-38	1,4-Dichlorobenzene	UG/L	10	10	Ū		NA
MW-38	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U_		NA
MW-38	2,4,5-Trichlorophenol	UG/L	25	25	U	UJ	NA
MW-38	2,4,6-Trichlorophenol	UG/L	10	10	U	UJ	NA
MW-38	2,4-Dichlorophenol	UG/L	10	10	U		NA

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**BOLD** = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		CurrentEvent			
			during Baseline	Result	LQ	DQ	Detect Limit	
MW-38	2,4-Dimethylphenol	UG/L	10	10	U		NA	
MW-38	2,4-Dinitrophenol	UG/L	25	25	U	UJ	NA	
MW-38	2,4-Dinitrotoluene	UG/L	10	10	U	UJ	NA	
MW-38	2,6-Dinitrotoluene	UG/L	10	10	Ü	UJ	NA	
. MW-38	2-Chloronaphthalene	UG/L	10	10	U	UJ	NA	
MW-38	2-Chlorophenol	UG/L	10	- 10	Ū	:	NA	
MW-38	2-Methylnaphthalene	UG/L	10	10	U		NA	
MW-38	2-Methylphenol	UG/L	10	10	Ū	••	NA	
· MW-38	2-Nitroaniline	UG/L	25	25	U	UJ	NA	
: MW-38	2-Nitrophenol	UG/L	10	10	U		NA	
MW-38	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA	
MW-38	3-Nitroaniline	UG/L	25	25	U	UJ	NA	
MW-38	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA	
MW-38	4-Bromophenyl-phenylether	UG/L	10	10	U		NA	
MW-38	4-Chloro-3-methylphenol	UG/L	10	10	U		NA	
MW-38	4-Chloroaniline	UG/L	10	10	U		NA	
MW-38	4-Chlorophenyl-phenyl ether	UG/L	10	10	U	UJ	NA	
MW-38	4-Methylphenol	UG/L	10	10	U		NA	
MW-38	4-Nitroaniline	UG/L	25	25	U	UJ	NA	
MW-38	4-Nitrophenol	UG/L	25	25	U	UJ	NA	
MW-38	Acenaphthene	UG/L	10	10	U	UJ	NA	
. MW-38	Acenaphthylene	UG/L	10	10	U	UJ	NA	
MW-38	Anthracene	UG/L	10	10	U		NA	
- MW-38	Benzo(a)anthracene	UG/L	10	10	U		NA	
MW-38	Benzo(a)pyrene	UG/L	10	10	U	R	NA	
MW-38	Benzo(b)fluoranthene	UG/L	10	10	U	R	NA	
MW-38	Benzo(g,h,i)perylene	UG/L	10	10	U	R	NA	
MW-38	Benzo(k)fluoranthene	UG/L_	10	10	U	R	NA	
MW-38	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA	
MW-38	bis(2-chloroethyl) ether	UG/L	10	· 10	U		· NA	
MW-38	Bis(2-ethylhexyl)phthalate	UG/L	10	321.61165.6X			0.01	
MW-38	Butylbenzylphthalate	UG/L	10	10	U		NA	
MW-38	Carbazole	UG/L	10	10	U	ļ <u></u>	NA	
MW-38	Chrysene	UG/L	10	10	U		NA	
MW-38	Di-n-butylphthalate	UG/L	10	10	U		NA	
MW-38	Di-n-octylphthalate	UG/L	10	10	U		NA	
MW-38	Dibenzo(a,h)anthracene	UG/L	10	10	U	R	NA	
MW-38	Dibenzofuran	UG/L	10	10	U	UJ	NA	
MW-38	Diethylphthalate	UG/L	10	10	U	UJ	NA	
MW-38	Dimethylphthalate	UG/L	10	10	U		NA	
MW-38	Fluoranthene	UG/L	10	10	U	ļ	NA	
MW-38	Fluorene	UG/L	10	10	U	UJ	NA	
MW-38	Hexachlorobenzene	UG/L	10	10	U	<u> </u>	NA	
MW-38	Hexachlorobutadiene	UG/L	10	10	U		NA	
MW-38	Hexachlorocyclopentadiene	UG/L	10	10	U		NA	
MW-38	Hexachloroethane	UG/L	10	10	U	<u> </u>	NA	

**BOLD** = Exceedance

## American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-38	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-38	Isophorone	UG/L	10	10	U		NA
MW-38	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-38	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-38	Naphthalene	UG/L	10	10	Ų		NA
MW-38	Nitrobenzene	UG/L	10	10	Ù		NA
MW-38	Pentachlorophenol	UG/L	25	25	U		NA
MW-38	Phenanthrene	UG/L	10	10 .	U		NA
MW-38	Phenol ·	UG/L	13	10	U	•	NA
MW-38	Pyrene	UG/L	10	10	U		NA
MW-39	1,2,4-Trichlorobenzene	UG/L	10	10	U	UJ	NA
MW-39	1,2-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-39	1,3-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-39	1,4-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-39	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U	UJ	NA
MW-39	2,4,5-Trichlorophenol	UG/L	25	25	U	UJ	NA
MW-39	2,4,6-Trichlorophenol	UG/L	10	10	U	UJ	NA
MW-39	2,4-Dichlorophenol	UG/L	10	10	U	UJ	NA
MW-39	2,4-Dimethylphenol	UG/L	10	10	U	UJ	NA
MW-39	2,4-Dinitrophenol	UG/L	25	25	Ü	UJ	NA
MW-39	2,4-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-39	2,6-Dinitrotoluene	UG/L	10	10 .	U	UJ	NA
MW-39	2-Chloronaphthalene	UG/L	10	10	Ū	UJ	NA
MW-39	2-Chlorophenol	UG/L	10	10	U	UJ	NA
MW-39	2-Methylnaphthalene	UG/L_	10	10	U	UJ	NA
MW-39_	2-Methylphenol	UG/L	10	10	U	UJ	NA
MW-39_	2-Nitroaniline	UG/Ĺ	25	25	U	UJ	NA
MW-39	2-Nitrophenol	UG/L	10	10	U	UJ	NA _
MW-39	3,3'-Dichlorobenzidine	UG/L	10	10	U	UJ	NA
MW-39	3-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-39	4,6-Dinitro-2-methylphenol	UG/L	25	25	U	UJ	NA
MW-39	4-Bromophenyl-phenylether	UG/L	10	10	U	_UJ_	NA
MW-39	4-Chloro-3-methylphenol	UG/L	10	10	U	UJ	NA
MW-39	4-Chloroaniline	UG/L	10	10	U	UJ	NA
MW-39	4-Chlorophenyl-phenyl ether	UG/L	10	10	U	UJ	NA
MW-39	4-Methylphenol	UG/L	10	10	U	UJ	NA
MW-39	4-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-39	4-Nitrophenol	UG/L	25	25	U	UJ	NA
MW-39	Acenaphthene	UG/L	10	10	U	UJ	NA
MW-39	Acenaphthylene	UG/L	10	10	U	UJ	NA
MW-39	Anthracene	UG/L	10	10	Ü	UJ	NA
MW-39	Benzo(a)anthracene	UG/L	10	10	U	UJ	NA
MW-39	Benzo(a)pyrene	UG/L	10	10	U	UJ	NA
MW-39	Benzo(b)fluoranthene	UG/L	10	10	U	UJ	NA
MW-39	Benzo(g,h,i)perylene	UG/L	10	10	U	UJ	ΝA
MW-39_	Benzo(k)fluoranthene	UG/L	10	10	U	UJ	NA

BOLD = Exceedance

NA = Not Applicable

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## American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		CurrentEvent		
			during Bascline	Result	LQ	DQ	Detect Limit
MW-39	Bis(2-chloroethoxy)methane	UG/L	10	10	U	UJ	NA
MW-39	bis(2-chloroethyl) ether	UG/L	10	10	U.	UJ	NA
MW-39	Bis(2-ethylhexyl)phthalate	UG/L	18	10	U	UJ	NA
MW-39	Butylbenzylphthalate	UG/L	10	10	U	UJ	NA
MW-39	Carbazole	UG/L	10	10	.U	UJ	NA
MW-39	Chryśene	UG/L	. 10	. 10	U	UJ	NA
MW-39	Di-n-butylphthalate	UG/L	10	10	U	UJ	NA
MW-39	Di-n-octylphthalate	UG/L	. 10	. 10	U	UJ	NA
MW-39	Dibenzo(a,h)anthracene	UG/L	10	10	U	UJ	NA
MW-39	Dibenzofuran	UG/L	- 10	10	U	UJ	NA
MW-39	Diethylphthalate	UG/L	10	10	Ū	UJ	NA
MW-39	Dimethylphthalate	UG/L	10	10	U	UJ	NA
MW-39	Fluoranthene	UG/L	10	10	U	UJ	NA
MW-39	Fluorene	UG/L	10	10	U	UJ	NA
MW-39	Hexachlorobenzene	UG/L	10	10	U	UJ	NA
MW-39	Hexachlorobutadiene	UG/L	10	10	U	UJ	NA
MW-39	Hexachlorocyclopentadiene	UG/L	10	10	U	UJ	NA
MW-39	Hexachloroethane	UG/L	10	10	U	UJ	NA
MW-39	Indeno(1,2,3-cd)pyrene	UG/L	10	10	.U	UJ	NA
MW-39	Isophorone	UG/L	10	10	U	UJ	NA
MW-39	N-Nitroso-di-n-propylamine	UG/L	. 10	10	U	UJ	NA
MW-39	N-Nitrosodiphenylamine	UG/L	10	. 10	:U	UJ	NA
MW-39	Naphthalene	UG/L	10	10	U	UJ	NA
MW-39	Nitrobenzene	UG/L	10	10	·U	UJ	NA
MW-39	Pentachlorophenol	UG/L	25	25	U	UJ	NA
MW-39	Phenanthrene	UG/L	10	10	U	UJ	NA
MW-39	Phenol	UG/L	33	10	Ü	UJ	NA
MW-39	Pyrene	UG/L	10	10	U	UJ	NA
MW-41	1,2,4-Trichlorobenzene	UG/L	10	. 10	U	UJ	NA
MW-41	1,2-Dichlorobenzene	UG/L	10	10	Ü	UJ	NA
MW-41	1,3-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-41	1,4-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-41	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U	UJ	NA
MW-41	2,4,5-Trichlorophenol	UG/L	25	25	U	UJ	NA
MW-41	2,4,6-Trichlorophenol	UG/L	10	10	U	UJ	NA
MW-41	2,4-Dichlorophenol	UG/L	10	10	U	UJ	NA
MW-41	2,4-Dimethylphenol	UG/L	10	10	U	UJ	NA
MW-41	2,4-Dinitrophenol	UG/L	25	25	U	UJ	NA
MW-41	2,4-Dinitrotoluene	UG/L	10	10	Ü	UJ	NA
MW-41	2,6-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-41	2-Chloronaphthalene	UG/L	10	10	Ū	UJ	NA
MW-41	2-Chlorophenol	UG/L	10	10	Ū	UJ	NA
MW-41	2-Methylnaphthalene	UG/L	10	10	Ü	UJ	NA
MW-41	2-Methylphenol	UG/L	10	10	Ü	UJ	NA
MW-41	2-Nitroaniline	UG/L	25	25	Ū	UJ	NA
MW-41	2-Nitrophenol	UG/L	10	10	Ū	UJ	NA NA



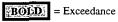
#### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
	]		during Baseline	Result	LQ	DQ	Detect Limit
MW-41	3,3'-Dichlorobenzidine	UG/L	10	10	U	UJ	NA
MW-41	3-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-41	4,6-Dinitro-2-methylphenol	UG/L	25	25	U	UJ	NA
MW-41	4-Bromophenyl-phenylether	UG/L	10	10	U	UJ	NA
MW-41	4-Chloro-3-methylphenol	UG/L	10	10 :	U	UJ	NA
MW-41	4-Chloroaniline	UG/L	10	. 10	U	UJ	NA
MW-41	4-Chlorophenyl-phenyl ether	UG/L	10	10	U	UJ	NA
MW-41	4-Methylphenol	UG/L	10	. 10	U	UJ	NA
MW-41.	4-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-41	4-Nitrophenol	UG/L	25	25	U	UJ	NA
MW-41	Acenaphthene	UG/L	10	10	U	ÜJ	NA
MW-41	Acenaphthylene	UG/L	10	10	U	UJ	NA
MW-41	Anthracene	UG/L	10	10	U	UJ	NA
MW-41	Benzo(a)anthracene	UG/L	10	10	U	UJ	NA
MW-41	Benzo(a)pyrene	UG/L	10	10	U	UJ	NA
MW-41	Benzo(b)fluoranthene	UG/L	10	10	U	UJ	NA
MW-41	Benzo(g,h,i)perylene	UG/L	10	10	U	UJ	NA
MW-41	Benzo(k)fluoranthene	UG/L	10	10	U	UJ	NA
MW-41	Bis(2-chloroethoxy)methane	UG/L	10	10	U	UJ	NA
MW-41	bis(2-chloroethyl) ether	UG/L	10	10	Ü	UJ	NA
MW-41	Bis(2-ethylhexyl)phthalate	UG/L	10	10	U	UJ	NA
MW-41	Butylbenzylphthalate	UG/L	10	10	U	UJ	· NA
MW-41	Carbazole	UG/L	10	10	Ü	UJ	NA
MW-41	Chrysene	UG/L	10	10	U	UJ	NA
MW-41	Di-n-butylphthalate	UG/L	10	10	U	UJ	NA
MW-41	Di-n-octylphthalate	UG/L	10	10	U	UJ	NA
MW-41	Dibenzo(a,h)anthracene	UG/L	10	10	U	UJ	NA
MW-41	Dibenzofuran	UG/L	10	10	U	UJ	NA
MW-41	Diethylphthalate	UG/L	10	10	Ũ	UJ	NA
MW-41	Dimethylphthalate	UG/L	-10	10	U	UJ	NA
MW-41	Fluoranthene	UG/L	10	10	U	UJ	NA
MW-41	Fluorene	UG/L	10	10	U	UJ	NA
MW-41	Hexachlorobenzene	UG/L	10	10	U	UJ	NA
MW-41	Hexachlorobutadiene	UG/L	10	10	U	UJ	NA
MW-41	Hexachlorocyclopentadiene	UG/L	10	10	U	UJ	NA
MW-41	Hexachloroethane	UG/L	10	10	U	UJ	NA
MW-41	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U	UJ	NA
MW-41	Isophorone	UG/L	10	10	U	UJ	NA
MW-41	N-Nitroso-di-n-propylamine	UG/L	10	10	U	UJ	NA
MW-41	N-Nitrosodiphenylamine	UG/L	10	10	U	UJ	NA
MW-41	Naphthalene	UG/L	10	10	Ü	UJ	NA -
MW-41	Nitrobenzene	UG/L	10	10	Ū	UJ	NA
MW-41	Pentachlorophenol	UG/L	25	25	Ü	ÜĴ	NA
MW-41	Phenanthrene	UG/L	10	10	Ū	UJ	NA
MW-41	Phenol	UG/L	34	10	Ū	UJ	NA
MW-41	Pyrene	UG/L	10	10	Ü	UJ	NA

**BOLD** = Exceedance

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-42	1,2,4-Trichlorobenzene	UG/L	10	10	U	UJ	NA
MW-42	1,2-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-42	1,3-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-42	1,4-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-42	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	Ü	UJ	NA
MW-42	2,4,5-Trichlorophenol	UG/L	25	25	Ū	UJ	NA
MW-42	2,4,6-Trichlorophenol	UG/L	10	10	Ü	ÜJ	NA
MW-42	2,4-Dichlorophenol	UG/L	10	10	U	UJ	NA
MW-42	2,4-Dimethylphenol	UG/L	10	10	U	UJ	NA
MW-42	2,4-Dinitrophenol	UG/L	25	25	U	UJ	NA
MW-42	2,4-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-42	2,6-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-42	2-Chloronaphthalene	UG/L	10	10	U	UJ	NA
MW-42	2-Chlorophenol	UG/L	10	10	U	UJ	NA
MW-42	2-Methylnaphthalene	UG/L	10	10	U	UJ	NA
MW-42	2-Methylphenol	UG/L	10	10	U	UJ	NA
MW-42	2-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-42	2-Nitrophenol	UG/L	10	10	U	UJ	NA
MW-42	3,3'-Dichlorobenzidine	UG/L	10	10	U	UJ	NA
MW-42	3-Nitroaniline	UG/L	25	25	Ü	UJ	NA
MW-42	4,6-Dinitro-2-methylphenol	UG/L	25	25	U	UJ	NA
MW-42	4-Bromophenyl-phenylether	UG/L	10	10	U	UJ	NA
MW-42	4-Chloro-3-methylphenol	UG/L	10	10	Ū.	UJ	NA
MW-42	4-Chloroaniline	UG/L	10	10	U	UJ	NA
MW-42	4-Chlorophenyl-phenyl ether	UG/L	10	10	U	UJ	NA
MW-42	4-Methylphenol	UG/L	10	10	U	UJ	NA
MW-42	4-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-42	4-Nitrophenol	UG/L	25	25	Ü	UJ	NA
MW-42	Acenaphthene	UG/L	10	10	U	UJ	NA
MW-42	Acenaphthylene	UG/L	10	10	U	UJ	NA
MW-42	Anthracene	UG/L	10	10	U	UJ	NA
MW-42	Benzo(a)anthracene	UG/L	10	10	U	UJ	NA
MW-42	Benzo(a)pyrene	UG/L	10	10	U	UJ	NA
MW-42	Benzo(b)fluoranthene	UG/L	10	10	U	UJ	NA
MW-42	Benzo(g,h,i)perylene	UG/L	10	10	U	UJ	NA
MW-42	Benzo(k)fluoranthene	UG/L	10	10	U	UJ	NA
MW-42	Bis(2-chloroethoxy)methane	UG/L	10	10	U	UJ	NA
MW-42	bis(2-chloroethyl) ether	UG/L	10	10	U	UJ	NA
MW-42	Bis(2-ethylhexyl)phthalate	UG/L	10	2	J	J	0.01
MW-42	Butylbenzylphthalate	UG/L	10	10	U	UJ	NA
MW-42	Carbazole	UG/L	10	10	U	UJ	NA
MW-42	Chrysene	UG/L	10	10	U	UJ	NA
MW-42	Di-n-butylphthalate	UG/L	10	10	U	UJ	NA
MW-42	Di-n-octylphthalate	UG/L	10	10	U	UJ	NA
MW-42	Dibenzo(a,h)anthracene	UG/L	10	10	U	UJ	NA
MW-42	Dibenzofuran	UG/L	10	10	U	UJ	NA



### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect	·	Current	Event	-
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-42	Diethylphthalate	UG/L	10	10	U	UJ	NA
MW-42	Dimethylphthalate	UG/L	10	10	U	UJ	NA
MW-42	Fluoranthene	UG/L	10	10	U	UJ	NA
MW-42	Fluorene	UG/L	10	10	U	UJ	NA
MW-42	Hexachlorobenzene	UG/L	10	10	U	UJ	NA
MW-42	Hexachlorobutadiene	UG/L	10	10	U	UJ	NA
MW-42	Hexachlorocyclopentadiene	UG/L	10	10	Ū	UJ	NA
MW-42	Hexachloroethane	UG/L	10	10	U	UJ	NA
MW-42	Indeno(1,2,3-cd)pyrene	UG/L	10	· 10	U	UJ	NA
MW-42	Isophorone	UG/L	10	10	U	UJ	NA
MW-42	N-Nitroso-di-n-propylamine	UG/L	10	10	U	UJ	NA
MW-42	N-Nitrosodiphenylamine	UG/L	10	10	U	UJ	NA
MW-42	Naphthalene	UG/L	10	10	U	UJ	NA
MW-42	Nitrobenzene	UG/L	10	10	Ū	UJ	NA
MW-42	Pentachlorophenol	UG/L	25	25	U	UJ	NA
MW-42	Phenanthrene	UG/L	10	10	U	UJ	NA
MW-42	Phenol	UG/L	41	10	Ü	UJ	NA
MW-42	Pyrene	UG/L	10	10	U	UJ	NA
MW-43	1,2,4-Trichlorobenzene	UG/L	20	10	U	UJ	NA
MW-43	1,2-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-43	1,3-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-43	1,4-Dichlorobenzene	UG/L	20	10	U	UJ	NA
MW-43	2,2'-oxybis(1-Chloropropane)	UG/L	20	10	U	UJ	NA
MW-43	2,4,5-Trichlorophenol	UG/L	50	25	U	UJ	NA
MW-43	2,4,6-Trichlorophenol	UG/L	20	01	U	UJ	NA
MW-43	2,4-Dichlorophenol	UG/L	20	10	U	UJ	NA
MW-43	2,4-Dimethylphenol	UG/L	20	10	U	UJ	NA
MW-43	2,4-Dinitrophenol	UG/L	50	25	U	UJ	NA
MW-43	2,4-Dinitrotoluene	UG/L	20	10	U	UJ	NA
MW-43	2,6-Dinitrotoluene	UG/L	20	10	U	UJ	NA
MW-43	2-Chloronaphthalene	UG/L	20	10	U	UJ	NA
MW-43	2-Chlorophenol	UG/L	20	10	U	UJ	NA
MW-43	2-Methylnaphthalene	UG/L	20	10	U	UJ	NA
MW-43	2-Methylphenol	UG/L	20	10	U	UJ	NA
MW-43	2-Nitroaniline	UG/L	50	25	U	UJ	NA
MW-43	2-Nitrophenol	UG/L	20	10	U	UJ	NA
MW-43	3,3'-Dichlorobenzidine	UG/L	20	10	U	UJ	NA
MW-43	3-Nitroaniline	UG/L	50	25	U	UJ	NA
MW-43	4,6-Dinitro-2-methylphenol	UG/L	_50	25	U	UJ	NA
MW-43	4-Bromophenyl-phenylether	UG/L	20	10	U	UJ	NA
MW-43	4-Chloro-3-methylphenol	UG/L	20	10	U	UJ	NA
MW-43	4-Chloroaniline	UG/L	20	10	U	UJ	NA
MW-43	4-Chlorophenyl-phenyl ether	UG/L	20	10	U	UJ	NA
MW-43	4-Methylphenol	UG/L	20	10	U	UJ	NA
MW-43	4-Nitroaniline	UG/L	50	25	U	UJ	NA
MW-43	4-Nitrophenol	UG/L	50	25	U	UJ	NA

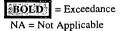
BOLD = Exceedance

NA = Not Applicable

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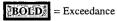
## American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect	<del></del>	Current	Event	
L.	·		during Baseline	Result	LQ	DQ	Detect Limit
MW-43	Acenaphthene	UG/L	20	10	U	UJ	NA
MW-43	Acenaphthylene	UG/L	20	10	U	UJ	NA
MW-43	Anthracene	UG/L	20	10	U	UJ	NA
MW-43	Benzo(a)anthracene	UG/L	20	10	U	UJ	NA
MW-43	Benzo(a)pyrene	UG/L	20	10	U	UJ	NA
MW-43	Benzo(b)fluoranthene	UG/L	20	. 10	U	UJ	NA
MW-43	Benzo(g,h,i)perylene	UG/L	20	10	U	UJ	NA
MW-43	Benzo(k)fluoranthene	UG/L	20	10	U	UJ	NA
MW-43	Bis(2-chloroethoxy)methane	UG/L	20	10	U	UJ	NA
MW-43	bis(2-chloroethyl) ether	UG/L	20	10	U	UJ :	NA
MW-43	Bis(2-ethylhexyl)phthalate	UG/L	20	10	U	UJ	NA
MW-43	Butylbenzylphthalate	UG/L	20	10	U	UJ	NA
MW-43	Carbazole	UG/L	20	10	U	UJ	NA
MW-43	Chrysene	UG/L	20	10	U	UJ	NA
MW-43	Di-n-butylphthalate	UG/L	20	10	U	UJ	NA
MW-43	Di-n-octylphthalate	UG/L	20	10	U	UJ	NA
MW-43	Dibenzo(a,h)anthracene	UG/L	20	10	Ü	UJ	NA
MW-43	Dibenzofuran	UG/L	20	10	Ū	UJ	NA
MW-43	Diethylphthalate	UG/L	20	10	U	UJ	NA
MW-43	Dimethylphthalate	UG/L	20	10	U	UJ	NA
MW-43	Fluoranthene	UG/L	20	10	U	UJ	NA
MW-43	Fluorene	UG/L	20	10	Ū	UJ	NA
MW-43	Hexachlorobenzene	UG/L	20	10	U	UJ	NA
MW-43	Hexachlorobutadiene	UG/L	20	10	U	UJ	NA
MW-43	Hexachlorocyclopentadiene	UG/L	20	10	U	UJ	NA
MW-43	Hexachloroethane	UG/L	20	10	U	UJ	NA
MW-43	Indeno(1,2,3-cd)pyrene	UG/L	20	10	U	UJ	NA
MW-43	Isophorone	UG/L	20	10	U	UJ	NA
MW-43	N-Nitroso-di-n-propylamine	UG/L	20	10	U	UJ	NA
MW-43	N-Nitrosodiphenylamine	UG/L	20	10	U	UJ	NA
MW-43	Naphthalene	UG/L	20	10	U	UJ	NA
MW-43	Nitrobenzene	UG/L	20	10	U	UJ	NA
MW-43	Pentachlorophenol	UG/L	50	25	U	UJ	NA
MW-43	Phenanthrene	UG/L	20	10	U	UJ	NA
MW-43	Phenol	UG/L	75	10	U	UJ	NA
MW-43	Pyrene	UG/L	20	10 .	U	UJ	NA
MW-44	1,2,4-Trichlorobenzene	UG/L	10	10	U	UJ	NA
MW-44	1,2-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-44	1,3-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-44	1,4-Dichlorobenzene	UG/L	10	10	Ü	UJ	NA
MW-44	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	Ü	UJ	NA
MW-44	2,4,5-Trichlorophenol	UG/L	25	25	U	UJ	NA
MW-44	2,4,6-Trichlorophenol	UG/L	10	10	Ū	UJ	NA
MW-44	2,4-Dichlorophenol	UG/L	10	10	Ü	UJ	NA
MW-44	2,4-Dimethylphenol	UG/L	10	10	Ü	UJ	NA
MW-44	2,4-Dinitrophenol	UG/L	25	25	Ü	UJ	NA



# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
	<b>,</b>		during Baseline	Result	LQ	DQ	Detect Limit
MW-44	2,4-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-44	2,6-Dinitrotoluene	UG/L	10	10	U	UJ	NA
-	2-Chloronaphthalene	UG/L	10	10	U	UJ <sup>:</sup>	NA
	2-Chlorophenol	UG/L	10	10	U	UJ	NA
<del></del>	2-Methylnaphthalene	UG/L	10	10	U	UJ	NA
	2-Methylphenol	UG/L		10	U	UJ	NA
	2-Nitroaniline	UG/L	25	25	U	UJ	NA
	2-Nitrophenol	UG/L	10	10	U.	UJ	NA
	3,3'-Dichlorobenzidine	UG/L	10	- 10	U	UJ	NA
	3-Nitroaniline	UG/L	25	25	U	UJ	-NA
	4,6-Dinitro-2-methylphenol	UG/L	25	25	U	UJ	NA
	4-Bromophenyl-phenylether	UG/L	10	10	U	UJ	NA
	4-Chloro-3-methylphenol	UG/L	10	10	U	UJ	NA
	4-Chloroaniline	UG/L	10	10	U	UJ	NA
MW-44	4-Chlorophenyl-phenyl ether	UG/L	10	10	U	UJ	NA
	4-Methylphenol	UG/L	10	10 .	Ŭ	UJ	NA
MW-44	4-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-44	4-Nitrophenol	UG/L	25	25	U	UJ	NA
MW-44	Acenaphthene	UG/L	10	10	U	UJ	NA
	Acenaphthylene	UG/L	10	10	U	UJ	NA
	Anthracene	UG/L	10	10	U	UJ	NA
MW-44	Benzo(a)anthracene	UG/L	10 ·	10	U	UJ	NA
MW-44	Benzo(a)pyrene	UG/L	10	10	U	UJ	NA
MW-44	Benzo(b)fluoranthene	UG/L	10	10	U	UJ	NA
MW-44	Benzo(g,h,i)perylene	UG/L	10	10	U	UJ	NA
MW-44	Benzo(k)fluoranthene	UG/L	10	10	U	UJ	NA
MW-44	Bis(2-chloroethoxy)methane	UG/L	10	10	U:	UJ	NA
MW-44	bis(2-chloroethyl) ether	UG/L	10	10	U	UJ	NA
MW-44	Bis(2-ethylhexyl)phthalate	UG/L	15	6	J	J	0.02
MW-44	Butylbenzylphthalate	UG/L	10	10 ·	บ	UJ	NA
MW-44	Carbazole	UG/L	10	10	U	UJ	NA
MW-44	Chrysene	UG/L	10	10	U	UJ	NA
MW-44	Di-n-butylphthalate	UG/L	10	10	U	UJ	NA
MW-44	Di-n-octylphthalate	UG/L	10	10	U	UJ	NA
MW-44	Dibenzo(a,h)anthracene	UG/L	10	10	U	UJ	NA
MW-44	Dibenzofuran	UG/L	10	10	U	UJ	NA
MW-44	Diethylphthalate	UG/L	10	10	U	UJ	NA
	Dimethylphthalate	UG/L	10	10	U	UJ	NA
MW-44	Fluoranthene	UG/L	10	10	U	UJ	NA
MW-44	Fluorene	UG/L	10	10	U	UJ	NA
MW-44	Hexachlorobenzene	UG/L	10	10	U	UJ	NA
MW-44	Hexachlorobutadiene	UG/L	10	10	U	UJ	NA
MW-44	Hexachlorocyclopentadiene	UG/L	10	10	U	UJ	NA
MW-44	Hexachloroethane	UG/L	10	10	U	UJ	NA
MW-44	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U	UJ	NA
MW-44	Isophorone	UG/L	10	10	U	UJ	NA



### American Chemical Services NPL Site Griffith, Indiana

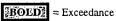
Well	Analyte	Units	Highest Detect		Current	Event	
	, and the second		during Baseline	Result	LQ	DQ	Detect Limit
MW-44	N-Nitroso-di-n-propylamine	UG/L	10	10	U	·UJ	NA
MW-44	N-Nitrosodiphenylamine	UG/L	10	10	U	UJ	NA
MW-44	Naphthalene	UG/L	10	10	Ü	UJ	NA
MW-44	Nitrobenzene	UG/L	10	10	U	UJ	NA
MW-44	Pentachlorophenol	UG/L	25	25	U	UJ	NA
MW-44	Phenanthrene	UG/L	10	. 10	U	UJ	NA
MW-44	Phenol	UG/L	11	10	U	UJ	NA
MW-44	Pyrene	UG/L	10	10 .	U	UJ	NA
MW-45_	1,2,4-Trichlorobenzene	UG/L	- 20	10	U .	UJ	NA
MW-45	1,2-Dichlorobenzene	UG/L	20	4	J	. J	0.01
MW-45	1,3-Dichlorobenzene	UG/L	20	10	. U	UJ	NA
MW-45	1,4-Dichlorobenzene	UG/L	20	2	J	J	0.01
MW-45	2,2'-oxybis(1-Chloropropane)	UG/L	20	7	J	J	0.01
MW-45	2,4,5-Trichlorophenol	UG/L	50	26	U	UJ	NA
MW-45	2,4,6-Trichlorophenol	UG/L	20	10	U	UJ	NA
MW-45	2,4-Dichlorophenol	UG/L	20	10	U	UJ	NA
MW-45	2,4-Dimethylphenol	UG/L	20	10	U	UJ	NA
MW-45	2,4-Dinitrophenol	UG/L	50	26	U	UJ	NA
MW-45	2,4-Dinitrotoluene	UG/L	20	10	U	UJ	NA
MW-45	2,6-Dinitrotoluene	UG/L	20	10	U	UJ	NA
MW-45	2-Chloronaphthalene	UG/L	20	10	U	UJ	NA
MW-45	2-Chlorophenol	UG/L	20	10	U	UJ	NA
MW-45	2-Methylnaphthalene	UG/L	20	0.5	J	<u>.</u> J	0.01
MW-45	2-Methylphenol	UG/L	20	10	U	·UJ	NA
MW-45	2-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-45	2-Nitrophenol	UG/L	20	10	U	UJ	NA
MW-45	3,3'-Dichlorobenzidine	UG/L	20	10 :	U	UJ	NA
MW-45	3-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-45	4,6-Dinitro-2-methylphenol	UG/L	50	26	U	UJ	NA
MW-45	4-Bromophenyl-phenylether	UG/L	20	10	U	UJ	NA
MW-45	4-Chloro-3-methylphenol	UG/L	20	10	U	UJ	NA
MW-45	4-Chloroaniline	UG/L	20	10	U	UJ	NA
MW-45	4-Chlorophenyl-phenyl ether	UG/L	20	10	U	UJ	NA
MW-45	4-Methylphenol	UG/L	20	10	U	UJ	NA
MW-45	4-Nitroaniline	UG/L	50	26	U	UJ	NA
MW-45	4-Nitrophenol	UG/L	50	26	U	UJ	NA
MW-45	Acenaphthene	UG/L	20	10	U	UJ	NA
MW-45	Acenaphthylene	UG/L	20	10	U	UJ_	NA
MW-45	Anthracene	UG/L	20	10	U	UJ	NA
MW-45	Benzo(a)anthracene	UG/L	20	10	U	UJ	NA
MW-45	Benzo(a)pyrene	UG/L	20	10	U	UJ	NA
MW-45	Benzo(b)fluoranthene	UG/L	20	10	U	UJ_	NA
MW-45	Benzo(g,h,i)perylene	UG/L	20	10	U	UJ	NA
MW-45	Benzo(k)fluoranthene	UG/L	20	10	U	UJ	NA
MW-45	Bis(2-chloroethoxy)methane	UG/L	20	10	U	UJ	NA
MW-45	bis(2-chloroethyl) ether	UG/L	_20	4	J	J	0.01

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BOLD = Exceedance

## American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect	··	Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-45	Bis(2-ethylhexyl)phthalate	UG/L	20	10	U	UJ	NA
MW-45	Butylbenzylphthalate	UG/L	20	10	U	UJ	NA
MW-45	Carbazole	UG/L	20	10	U	UJ	NA
MW-45	Chrysene	UG/L	20	10	U	ŲJ	NA
MW-45	Di-n-butylphthalate	UG/L	20	10	U	UJ	NA
MW-45	Di-n-octylphthalate	UG/L	20	. 10	U	UJ	NA
MW-45	Dibenzo(a,h)anthracene	UG/L	20	10	U	UJ	NA
MW-45	Dibenzofuran	UG/L	20	10	U	UJ	NA
MW-45	Diethylphthalate	UG/L	20.	10	U	UJ	NA
MW-45	Dimethylphthalate	UG/L	20	· 10	U	UJ	NA
MW-45	Fluoranthene	UG/L	20	10	U	UJ	NA
MW-45	Fluorene	UG/L	20	10	U	ÜJ	NA
MW-45	Hexachlorobenzene	UG/L	20	10	U	UJ	NA
MW-45	Hexachlorobutadiene	UG/L	20	10	U	UJ	NA
MW-45	Hexachlorocyclopentadiene	UG/L	20	10	U	UJ	NA
MW-45	Hexachloroethane	UG/L	20	10	U	UJ	NA
MW-45	Indeno(1,2,3-cd)pyrene	UG/L	20	10	U	UJ	NA
MW-45	Isophorone	UG/L	20	10	U	UJ	NA
MW-45	N-Nitroso-di-n-propylamine	UG/L	20	10	U	UJ	NA
MW-45	N-Nitrosodiphenylamine	UG/L	20	10	U	UJ	NA
MW-45	Naphthalene	UG/L	140	11		J	0.01
MW-45	Nitrobenzene	UG/L	20	10	U	UJ	NA
MW-45	Pentachlorophenol	UG/L	50	26	U	UJ	NA
MW-45	Phenanthrene	UG/L	20	10	U	UJ	NA
MW-45	Phenol	UG/L	50	31	<u> </u>	J	0.01
MW-45	Pyrene	UG/L	20	10	U	UJ	NA
MW-46	1,2,4-Trichlorobenzene	UG/L	10	10	U.		NA
MW-46	1,2-Dichlorobenzene	UG/L	10	10	U		NA
MW-46	1,3-Dichlorobenzene	UG/L	10	10	U		NA
MW-46	1,4-Dichlorobenzene	UG/L	10	10	U		· NA
MW-46	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-46	2,4,5-Trichlorophenol	UG/L	25	25	U		NA
MW-46	2,4,6-Trichlorophenol	UG/L	_ 10	10	U		NA
MW-46	2,4-Dichlorophenol	UG/L	10	10	U		NA
MW-46	2,4-Dimethylphenol	UG/L	10	10	Ŭ		NA
MW-46	2,4-Dinitrophenol	UG/L	25	25	U		NA
MW-46	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-46	2,6-Dinitrotoluene	UG/L	10	10	U		NA
MW-46	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-46	2-Chlorophenol	UG/L	10	10	U		NA
MW-46	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-46	2-Methylphenol	UG/L	10	10	U		NA
MW-46	2-Nitroaniline	UG/L	25	25	U		NA
MW-46	2-Nitrophenol	UG/L	10	10	U		NA
MW-46	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-46	3-Nitroaniline	UG/L	25	25	U		NA



## American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect	<del></del>	Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-46	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-46	4-Bromophenyl-phenylether	UG/L	10	10	U_		NA
MW-46	4-Chloro-3-methylphenol	UG/L	10	10	U_		NA
MW-46	4-Chloroaniline	UG/L	10	10	U		NA
MW-46	4-Chlorophenyl-phenyl ether	UG/L	10	10	U_		NA
MW-46	4-Methylphenol	UG/L	10	10	U		NA
MW-46	4-Nitroaniline	UG/L	25	25	U		NA
MW-46	4-Nitrophenol	UG/L	25	25	U ·		NA
MW-46	Acenaphthene	UG/L	10	10	U		NA
MW-46	Acenaphthylene	UG/L	10 ·	10	U		NA
MW-46	Anthracene	UG/L	10	10	U		NA
MW-46	Benzo(a)anthracene	UG/L	10	10	U		NA
MW-46	Benzo(a)pyrene	UG/L	10	10	U_		NA
MW-46	Benzo(b)fluoranthene	UG/L	10	10	U		NA
MW-46	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-46	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-46	Bis(2-chloroethoxy)methane	UG/L	10	10	U		NA
MW-46	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
<u>MW-46</u>	Bis(2-ethylhexyl)phthalate	UG/L	10	10	U		NA
MW-46	Butylbenzylphthalate	UG/L	10	10	U_		NA
MW-46	Carbazole	UG/L	10	10	U_		NA
MW-46	Chrysene	UG/L	10	10	U_	ļ	NA
<u>MW-46</u>	Di-n-butylphthalate	UG/L	10	10	U	ļ	NA
<u>MW-46</u>	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-46	Dibenzo(a,h)anthracene	UG/L	10	10	U_		NA
MW-46	Dibenzofuran	UG/L	10	10	U	ļ	NA
MW-46	Diethylphthalate	UG/L	10	10	. U	· .	NA
MW-46	Dimethylphthalate	UG/L	10	10	U		NA
MW-46	Fluoranthene	UG/L	10	10	U		NA
MW-46	Fluorene	UG/L	10	. 10	U		NA
MW-46	Hexachlorobenzene	UG/L	10	10	U		NA
MW-46	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-46	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-46	Hexachloroethane	UG/L	10	10	U		NA
<u>MW-46</u>	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
	Isophorone	UG/L	10	10	U	ļ	NA
MW-46	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-46	N-Nitrosodiphenylamine	UG/L	10	10	U	<u> </u>	NA
MW-46	Naphthalene	UG/L	10	10	U_	ļ	NA
MW-46	Nitrobenzene	UG/L	10	10	U_		NA
MW-46	Pentachlorophenol	UG/L	25	25	U	ļ	NA
MW-46	Phenanthrene	UG/L	10	10	U	ļ	NA
MW-46	Phenol	UG/L	10	10	U	ļ	NA
MW-46	Pyrene	UG/L	10	10	U		NA
MW-47	1,2,4-Trichlorobenzene	UG/L	10	10	U	ļ <u>.</u>	NA
MW-47	1,2-Dichlorobenzene	UG/L	10	10	U	<u> </u>	NA

BOLD = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect	<del></del> -	Current	Event	
į	Ĭ		during Baseline	Result	LQ	DQ	Detect Limit
MW-47	1,3-Dichlorobenzene	UG/L	10	10 =	U		NA
MW-47	1,4-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-47	2,2'-oxybis(1-Chloropropane)	UG/L	10	· 10	U		NA
MW-47	2,4,5-Trichlorophenol	UG/L	25	25	U		NA
MW-47	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-47	2,4-Dichlorophenol	UG/L	10	. 10	U		NA
MW-47	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-47	2,4-Dinitrophenol	UG/L	25	25	U		NA
MW-47	2,4-Dinitrotoluene	UG/L	10	10	U		NA
MW-47	2,6-Dinitrotoluene	UG/L	10	10 -	U		NA
MW-47	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-47	2-Chlorophenol	UG/L	10	10	U		NA
MW-47	2-Methylnaphthalene	UG/L	10	_10	U		NA
MW-47	2-Methylphenol	UG/L	10	10	U		NA
MW-47	2-Nitroaniline	UG/L	25	25	U		NA
MW-47	2-Nitrophenol	UG/L	10	10	U	,	NA
MW-47	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-47	3-Nitroaniline	UG/L	25	25	U		NA
MW-47	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-47	4-Bromophenyl-phenylether	UG/L	10	10	U		NA
MW-47	4-Chloro-3-methylphenol	UG/L	10	10	U	UJ	NA
MW-47	4-Chloroaniline	UG/L	10	10	U		NA
MW-47	4-Chlorophenyl-phenyl ether	UG/L	10	10	U		NA
MW-47	4-Methylphenol	UG/L	10	10	U		NA
_MW-47	4-Nitroaniline	UG/L	25	25	U		NA
MW-47	4-Nitrophenol	UG/L	25	25	U	UJ	NA
MW-47	Acenaphthene	UG/L	10 :	10	U		NA
MW-47	Acenaphthylene	UG/L	10	10	U		NA
MW-47	Anthracene	UG/L	10	10	U		NA
MW-47	Benzo(a)anthracene	UG/L:	10	10	U		NA
MW-47	Benzo(a)pyrene	UG/L	10	10	U		NA
MW-47	Benzo(b)fluoranthene	UG/L	10	10	U	<u> </u>	NA
MW-47	Benzo(g,h,i)perylene	UG/L	10	10	U		NA
MW-47	Benzo(k)fluoranthene	UG/L	10	10	U		NA
MW-47	Bis(2-chloroethoxy)methane	UG/L	10	10	U	<u> </u>	NA
MW-47	bis(2-chloroethyl) ether	UG/L	10	10	U		NA
MW-47	Bis(2-ethylhexyl)phthalate	UG/L	10	10	U		NA
MW-47	Butylbenzylphthalate	UG/L	10	10	U		NA
MW-47	Carbazole	UG/L	10	10	U		NA
MW-47	Chrysene	UG/L	10	10	U		NA
MW-47	Di-n-butylphthalate	UG/L	10	10	U		NA
MW-47	Di-n-octylphthalate	UG/L	10	10	U		NA
MW-47	Dibenzo(a,h)anthracene	UG/L	10	10	U		NA
MW-47	Dibenzofuran	UG/L	10	10	U	<u> </u>	NA
MW-47	Diethylphthalate	UG/L	10	10	U		NA
MW-47	Dimethylphthalate	UG/L	10	10	U		NA

**BOLD** = Exceedance NA = Not Applicable

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### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
	•		during Baseline	Result	LQ	DQ	Detect Limit
MW-47	Fluoranthene	UG/L	10	10	U		NA
MW-47	Fluorene	UG/L	10	10	U		NA
MW-47	Hexachlorobenzene	UG/L	10	10	U		NA
MW-47	Hexachlorobutadiene	UG/L	10	10	Ü		NA
MW-47	Hexachlorocyclopentadiene	UG/L	10	10	U		. NA
MW-47	Hexachloroethane	UG/L	10	10	U	-	NA
MW-47	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-47	Isophorone	UG/L	10	10	U		NA
MW-47	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-47	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-47	Naphthalene	UG/L	10	10	Ü		NA
MW-47	Nitrobenzene	UG/L	10	10	U		NA
MW-47	Pentachlorophenol	UG/L	25	25	U	1	NA
MW-47	Phenanthrene	UG/L	10	10	U		NA
MW-47	Phenol	UG/L	39	10	U		NA
MW-47	Pyrene	UG/L	10	10	U		NA
MW-48	1,2,4-Trichlorobenzene	UG/L	20	10	U		NA
MW-48	1,2-Dichlorobenzene	UG/L	20	10	U		NA
MW-48	1,3-Dichlorobenzene	UG/L	20	10	U		NA
MW-48	1,4-Dichlorobenzene	UG/L	20	10	U		NA
MW-48	2,2'-oxybis(1-Chloropropane)	UG/L	20	10	U		NA
MW-48	2,4,5-Trichlorophenol	UG/L	50	25	.U		NA
MW-48	2,4,6-Trichlorophenol	UG/L	20	10	U		NA
MW-48	2,4-Dichlorophenol	UG/L	20	10	U		NA
MW-48	2,4-Dimethylphenol	UG/L	20	3	J		0.01
MW-48	2,4-Dinitrophenol	UG/L	50	25	U		NA
MW-48	2,4-Dinitrotoluene	UG/L	20	10	U		NA
MW-48	2,6-Dinitrotoluene	UG/L	20	10	U		NA
MW-48	2-Chloronaphthalene	UG/L	20	10	U		NA
MW-48	2-Chlorophenol	UG/L	20	10	U		NA
MW-48	2-Methylnaphthalene	UG/L	20	10	U		NA
MW-48	2-Methylphenol	UG/L	20	10	U		NA
MW-48	2-Nitroaniline	UG/L	50	25	U		NA
MW-48	2-Nitrophenol	UG/L	20	10	U		NA
MW-48	3,3'-Dichlorobenzidine	UG/L	20	10	U		NA
MW-48	3-Nitroaniline	UG/L	50	25	U		NA
MW-48	4,6-Dinitro-2-methylphenol	UG/L	50	25	U		NA
MW-48	4-Bromophenyl-phenylether	UG/L	20	10	U		NA
MW-48	4-Chloro-3-methylphenol	UG/L	20	10	U		NA
MW-48	4-Chloroaniline	UG/L	20	10	U		NA
MW-48	4-Chlorophenyl-phenyl ether	UG/L	20	10	U		NA
MW-48	4-Methylphenol	UG/L	20	10	U		NA
MW-48	4-Nitroaniline	UG/L	50	25	Ü		NA
MW-48	4-Nitrophenol	UG/L	50	25	Ü		NA
MW-48	Acenaphthene	UG/L	20	10	Ü		NA
MW-48	Acenaphthylene	UG/L	20	10	Ü		NA

**BOLD** = Exceedance

## American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
L			during Baseline	Result	LQ	DQ	Detect Limit
MW-48	Anthracene	UG/L	20	10	U		NA
MW-48	Benzo(a)anthracene	UG/L	20	10	U		NA
MW-48	Benzo(a)pyrene	UG/L	20	10	U		NA
MW-48	Benzo(b)fluoranthene	UG/L	20	10	U		NA
MW-48	Benzo(g,h,i)perylene	UG/L	20	10	U		NA
MW-48	Benzo(k)fluoranthene	UG/L	20	. 10	U		NA
MW-48	Bis(2-chloroethoxy)methane	UG/L	20	10	U		NA
MW-48	bis(2-chloroethyl) ether	UG/L	20	18			0.01
MW-48	Bis(2-ethylhexyl)phthalate	UG/L	20	10	U		NA
MW-48	Butylbenzylphthalate	UG/L	20	10	U		NA
MW-48	Carbazole	UG/L	20	10	U		NA
MW-48	Chrysene	UG/L	20	10	U		NA
MW-48	Di-n-butylphthalate	UG/L	20	10	U		NA
MW-48	Di-n-octylphthalate	UG/L	20	10	U		NA NA
MW-48	Dibenzo(a,h)anthracene	UG/L	20	10	U		NA
MW-48	Dibenzofuran	UG/L	20	10	U		NA
MW-48	Diethylphthalate	UG/L	20	10	U		NA
MW-48	Dimethylphthalate	UG/L	20	10	U		NA
MW-48	Fluoranthene	UG/L	20	10	U		NA
MW-48	Fluorene	UG/L	20	10	U		NA
MW-48	Hexachlorobenzene	UG/L	20	10	U		NA
MW-48	Hexachlorobutadiene	UG/L	20	10	U		NA
MW-48	Hexachlorocyclopentadiene	UG/L	20	10	U		NA
MW-48	Hexachloroethane	UG/L	20	10	U		NA NA
MW-48	Indeno(1,2,3-cd)pyrene	UG/L	20	10	U		NA
MW-48	Isophorone	UG/L	20	10	U		NA
MW-48	N-Nitroso-di-n-propylamine	UG/L	20 .	10	U		NA ··
MW-48	N-Nitrosodiphenylamine	UG/L	20	10	U		NA
MW-48	Naphthalene	UG/L	20	10	U		NA
MW-48	Nitrobenzene	UG/L	20	10	U		NA
MW-48	Pentachlorophenol	UG/L	50	25	U		NA
MW-48	Phenanthrene	UG/L	20	10	U		NA
MW-48	Phenol	UG/L	110	87	D		0.02
MW-48	Pyrene	UG/L	20	10	U		NA
MW-49	1,2,4-Trichlorobenzene	UG/L	50	10	U		NA
MW-49	1,2-Dichlorobenzene	UG/L	50	10	U		NA
MW-49	1,3-Dichlorobenzene	UG/L	50	10	U		NA
MW-49	1,4-Dichlorobenzene	UG/L	50	10	U	L	NA
MW-49	2,2'-oxybis(1-Chloropropane)	UG/L	28	9	J	J	0.01
MW-49	2,4,5-Trichlorophenol	UG/L	120	25	U		NA
MW-49	2,4.6-Trichlorophenol	UG/L	50	10	U		NA
MW-49	2,4-Dichlorophenol	UG/L	50	10	U		NA
MW-49	2,4-Dimethylphenol	UG/L	50	10	U		NA
MW-49	2,4-Dinitrophenol	UG/L	120	25	U	UJ	NA
MW-49	2,4-Dinitrotoluene	UG/L	50	10	U		NA
MW-49	2,6-Dinitrotoluene	UG/L	50	10	U	UJ	NA

BOLD = Exceedance

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-49	2-Chloronaphthalene	UG/L	50	10	U		NA
MW-49	2-Chlorophenol	UG/L	50	10	U		NA
MW-49	2-Methylnaphthalene	UG/L	50	10	U		NA
MW-49	2-Methylphenol	UG/L	50	10	U		NA
MW-49	2-Nitroaniline	UG/L	120	25	Ü	:	NA
MW-49	2-Nitrophenol	UG/L	50	10	U		NA
MW-49	3,3'-Dichlorobenzidine	UG/L	50	10	Ü		NA
MW-49	3-Nitroaniline	UG/L		- 25	U.		NA
MW-49	4,6-Dinitro-2-methylphenol	UG/L	120	25	U	UJ	NA
MW-49	4-Bromophenyl-phenylether	UG/L	50	10	U		NA
MW-49	4-Chloro-3-methylphenol	UG/L	50	10	U		NA
MW-49	4-Chloroaniline	UG/L	50	10	Ū		NA
MW-49	4-Chlorophenyl-phenyl ether	UG/L	50	10	Ü		NA
MW-49	4-Methylphenol	UG/L	50	10	U		NA
MW-49	4-Nitroaniline	UG/L	120	25	U		NA
MW-49	4-Nitrophenol	UG/L	120	25	Ū		NA
MW-49	Acenaphthene	UG/L	50	10	Ū		NA
MW-49	Acenaphthylene	UG/L	50	10	Ū		NA
MW-49	Anthracene	UG/L	50	10	Ū	<u> </u>	NA
MW-49	Benzo(a)anthracene	UG/L	50	10	U	· · · · ·	NA
MW-49	Benzo(a)pyrene	UG/L	50	10	U		NA
MW-49	Benzo(b)fluoranthene	UG/L	50	10	Ū		NA
MW-49	Benzo(g,h,i)perylene	UG/L	50	10	U		NA
MW-49	Benzo(k)fluoranthene	UG/L	50	10	Ü		NA
MW-49	Bis(2-chloroethoxy)methane	UG/L	50	10	U		NA
MW-49	bis(2-chloroethyl) ether	UG/L	50	10	U	<del></del>	NA
MW-49	Bis(2-ethylhexyl)phthalate	UG/L	50	10	U		NA
MW-49	Butylbenzylphthalate	UG/L	50	10	U		NA
MW-49	Carbazole	UG/L	50	10	U		NA
MW-49	Chrysene	UG/L	50	10	Ü		NA
MW-49	Di-n-butylphthalate	UG/L	50	10	Ū		NA
MW-49	Di-n-octylphthalate	UG/L	50	10	U		NA
MW-49	Dibenzo(a,h)anthracene	UG/L	50	10	U		NA
MW-49	Dibenzofuran	UG/L	50	10	Ü		NA
MW-49	Diethylphthalate	UG/L	50	10	Ü		NA
MW-49	Dimethylphthalate	UG/L	50	10	Ü		NA
MW-49	Fluoranthene	UG/L	50	10	U		NA NA
MW-49	Fluorene	UG/L	50	10	Ü	<del> </del>	NA NA
MW-49	Hexachlorobenzene	UG/L	50	10	U	<u> </u>	NA
MW-49	Hexachlorobutadiene	UG/L	50	10	Ū	$\vdash$	NA NA
MW-49	Hexachlorocyclopentadiene	UG/L	50	10	U	<del> </del>	NA NA
MW-49	Hexachloroethane	UG/L	50	10	υ	<del> </del>	NA NA
MW-49	Indeno(1,2,3-cd)pyrene	UG/L	50	10_	U	<del> </del>	NA NA
MW-49	Isophorone	UG/L	10	3	J	J	
MW-49	N-Nitroso-di-n-propylamine	UG/L	50	10	U	<del> '-</del>	0.01 NA
MW-49	N-Nitrosodiphenylamine	UG/L	50	10	U	$\vdash$	NA NA

BOLD: = Exceedance

#### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect	<u>.</u>	Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-49	Naphthalene	UG/L	50	10	U		NA
MW-49	Nitrobenzene	UG/L	50	10	U		NA
MW-49	Pentachlorophenol	UG/L	120	25	U		NA
MW-49	Phenanthrene	UG/L	50	10	U	· ·	NA
MW-49	Phenol	UG/L	125	71	<u> </u>		0.01
MW-49	Pyrene	UG/L	50	. 10	U		. NA
MW-50	1,2,4-Trichlorobenzene	UG/L	60	10	Ū	UJ	NA
MW-50	1,2-Dichlorobenzene	UG/L	60	10	U	UJ	NA
MW-50	1,3-Dichlorobenzene	UG/L	60	10	U	UJ	· NA
MW-50	1,4-Dichlorobenzene	· UG/L	60	10	Ū	UJ	NA
MW-50	2,2'-oxybis(1-Chloropropane)	UG/L	60	10	Ü	UJ	NA
MW-50	2,4,5-Trichlorophenol	UG/L	150	26	U	UJ	NA
MW-50	2,4,6-Trichlorophenol	UG/L	60	10	U	UJ	NA
MW-50	2,4-Dichlorophenol	UG/L	60	10	Ü	UJ	NA
MW-50	2,4-Dimethylphenol	UG/L	60	10	U	UJ	NA
MW-50	2,4-Dinitrophenol	UG/L	150	26	· U	UJ	NA
MW-50	2,4-Dinitrotoluene	UG/L	60	10	Ü	UJ	NA
MW-50	2,6-Dinitrotoluene	UG/L	60	10	Ü	UJ	NA
MW-50	2-Chloronaphthalene	UG/L	60	10	Ū	UJ	NA
MW-50	2-Chlorophenol	UG/L	60	10	Ū	UJ	NA
MW-50	2-Methylnaphthalene	UG/L	60	10	U	UJ	NA
MW-50	2-Methylphenol	UG/L	60	10	Ü	UJ	NA
MW-50	2-Nitroaniline	UG/L	150	26	U	UJ	NA
MW-50	2-Nitrophenol	UG/L	60	10	U	UJ	NA
MW-50	3,3'-Dichlorobenzidine	UG/L	60	10	U	UJ	NA
MW-50	3-Nitroaniline	UG/L	150	26	U	UJ	NA
MW-50	4.6-Dinitro-2-methylphenol	UG/L	150	26	U	UJ	NA
MW-50	4-Bromophenyl-phenylether	UG/L	60	10	U	UJ	NA
MW-50	4-Chloro-3-methylphenol	UG/L	60	10	Ü	UJ	NA
MW-50	4-Chloroaniline	UG/L	60	10	U	UJ	NA
MW-50	4-Chlorophenyl-phenyl ether	UG/L	60	10	U	UJ	NA
MW-50	4-Methylphenol	UG/L	60	10	U	UJ	NA
MW-50	4-Nitroaniline	UG/L	150	26	U	UJ	NA
MW-50	4-Nitrophenol	UG/L	150	26	Ū	UJ	NA
MW-50	Acenaphthene	UG/L	60	10	U	UJ	NA
MW-50	Acenaphthylene	UG/L	60	10	U	UJ	NA
MW-50	Anthracene	UG/L	60	10	U	UJ	NA
MW-50	Benzo(a)anthracene	UG/L	60	10	U	UJ	NA
MW-50	Benzo(a)pyrene	UG/L	60	10	Ü	UJ	NA
MW-50	Benzo(b)fluoranthene	UG/L	60	10	Ü	UJ	NA
MW-50	Benzo(g,h,i)perylene	UG/L	60	10	Ü	UJ	NA
MW-50	Benzo(k)fluoranthene	UG/L	60	10	Ü	UJ	NA
MW-50	Bis(2-chloroethoxy)methane	UG/L	60	10	U	UJ	NA
MW-50	bis(2-chloroethyl) ether	UG/L	60	10	Ü	UJ	NA
MW-50	Bis(2-ethylhexyl)phthalate	UG/L	60	10	Ū	UJ	NA
MW-50	Butylbenzylphthalate	UG/L	60	01	Ū	UJ	NA

BOLD = Exceedance

NA = Not Applicable

## American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
	•		during Baseline	Result	LQ	DQ	Detect Limit
MW-50	Carbazole	UG/L	60	10	U	UJ	NA
MW-50	Chrysene	UG/L	60	10	U	UJ	NA
MW-50	Di-n-butylphthalate	UG/L	60	10	U	UJ	NA
MW-50	Di-n-octylphthalate	UG/L	60	10	U	UJ	NA
MW-50	Dibenzo(a,h)anthracene	UG/L	60	10	U	UJ	NA
MW-50	Dibenzofuran	UG/L	60	10	U	UJ	NA
MW-50	Diethylphthalate	UG/L	60	. 10	U	UJ	NA
MW-50	Dimethylphthalate	UG/L	60	10	U	UJ	NA
MW-50	Fluoranthene	UG/L	60	10	U	· UJ	NA
MW-50	Fluorene -	UG/L	60	10	U	· UJ	NA
MW-50	Hexachlorobenzene	UG/L	60	10	U	UJ	NA
MW-50	Hexachlorobutadiene	UG/L	60	10	U	UJ	NA
MW-50	Hexachlorocyclopentadiene	UG/L	60	10	U	UJ	NA
MW-50	Hexachloroethane	UG/L	60	10	U	UJ	NA
MW-50	Indeno(1,2,3-cd)pyrene	UG/L	60	10	U	UJ	NA
MW-50	Isophorone	UG/L	60	10	U	UJ	NA
MW-50	N-Nitroso-di-n-propylamine	UG/L	60	10	U	UJ	NA
MW-50	N-Nitrosodiphenylamine	UG/L	60	10	U	UJ	NA
MW-50	Naphthalene	UG/L	60	10	U	UJ	NA
MW-50	Nitrobenzene	UG/L	60	10	U	UJ	NA
MW-50	Pentachlorophenol	UG/L	150	26	U	UJ	NA
MW-50	Phenanthrenė	UG/L	60	10	U ·	UJ	NA
MW-50	Phenol .	UG/L	340	10	U	UJ	NA
_MW-50	Pyrene	UG/L	60	10	U	UJ	NA
MW-51	1,2,4-Trichlorobenzene	UG/L	10	10	U		NA
MW-51	1.2-Dichlorobenzene	UG/L	10	10	U		NA
MW-51	1.3-Dichlorobenzene	UG/L	10	10	U		NA
MW-51	1.4-Dichlorobenzene	UG/L	10	10	U		NA
MW-51	2.2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-51	2.4.5-Trichlorophenol	UG/L	25	25	U		NA
MW-51	2.4.6-Trichlorophenol	UG/L	10	10	U.		NA
MW-51	2.4-Dichlorophenol	UG/L	10	10	U		NA
MW-51	2.4-Dimethylphenol	UG/L	10	10	U		NA
MW-51	2,4-Dinitrophenol	UG/L	25	25	U	<u> </u>	NA
MW-51	2.4-Dinitrotoluene	UG/L	10	10	U		NA
MW-51	2.6-Dinitrotoluene	UG/L	10	10	U		NA
MW-51	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-51	2-Chlorophenol	UG/L	10	10	U		NA
MW-51	2-Methylnaphthalene	UG/L	10	10	U		NA
MW-51	2-Methylphenol	UG/L	10	10	U		NA
MW-51	2-Nitroaniline	UG/L	25	25	U		NA _
MW-51	2-Nitrophenol	UG/L	10	10	U		NA_
MW-51	3,3'-Dichlorobenzidine	UG/L	10	10	U		NA
MW-51	3-Nitroaniline	UG/L	25	25	U		NA
MW-51	4,6-Dinitro-2-methylphenol	UG/L	25	25	U		NA
MW-51	4-Bromophenyl-phenylether	UG/L	10	10	U		NA

**BOLD** = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

MW-51   4-Chloro-3-methylphenol   UG/L   10   10   U     MW-51   4-Chlorophenyl-phenyl ether   UG/L   10   10   U	Well	Analyte	Units	Highest Detect		Current	Event	
MW-51   4-Chloroaniline   UG/L   10   10   U   W-51   4-Chlorophenyl-phenyl ether   UG/L   10   10   U   W-51   4-Methylphenol   UG/L   10   10   U   W-51   4-Methylphenol   UG/L   25   25   U   W-51   4-Nitrophenol   UG/L   25   25   U   W-51   4-Nitrophenol   UG/L   25   25   U   W-51   Acenaphthene   UG/L   10   10   U   W-51   Acenaphthylene   UG/L   10   10   U   W-51   Acenaphthylene   UG/L   10   10   U   W-51   Acenaphthylene   UG/L   10   10   U   W-51   Acenaphthylene   UG/L   10   10   U   W-51   Anthracene   UG/L   10   10   U   W-51   Benzo(a)anthracene   UG/L   10   10   U   W-51   Benzo(a)anthracene   UG/L   10   10   U   W-51   Benzo(a)anthracene   UG/L   10   10   U   W-51   Benzo(b)fluoranthene   UG/L   10   10   U   W-51   Benzo(b)fluoranthene   UG/L   10   10   U   W-51   Benzo(c)hilperylene   UG/L   10   10   U   W-51   Benzo(c)hilperylene   UG/L   10   10   U   W-51   Bis(2-chloroethoxy)methane   UG/L   10   10   U   W-51   Bis(2-chloroethyl)ether   UG/L   10   10   U   W-51   Bis(2-chloroethyl)ether   UG/L   10   10   U   W-51   Bis(2-chloroethyl)ether   UG/L   10   10   U   W-51   Bis(2-chloroethyl)ether   UG/L   10   10   U   W-51   Burylbenzylphthalate   UG/L   10   10   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   U   W-51   Hexachloroethane   UG/L   10   10   U   U   W-51   Hexachloroethane   UG/L   10   10   U   W-51			]	during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-51   4-Chlorophenyl-phenyl ether   UG/L   10   10   U   W-51   4-Methylphenol   UG/L   25   25   U   W-51   4-Mitrophenol   UG/L   25   25   U   W-51   4-Nitrophenol   UG/L   10   10   U   W-51   4-Cenaphthylene   UG/L   10   10   U   W-51   Acenaphthylene   UG/L   10   10   U   W-51   Acenaphthylene   UG/L   10   10   U   W-51   Anthracene   UG/L   10   10   U   W-51   Benzo(a)anthracene   UG/L   10   10   U   W-51   Benzo(a)pyrene   UG/L   10   10   U   W-51   Benzo(a)pyrene   UG/L   10   10   U   W-51   Benzo(a)pyrene   UG/L   10   10   U   W-51   Benzo(c)filuoranthene   UG/L   10   10   U   W-51   Benzo(c)filuoranthene   UG/L   10   10   U   W-51   Benzo(c)filuoranthene   UG/L   10   10   U   W-51   Bis(2-chloroethoxy)methane   UG/L   10   10   U   W-51   Bis(2-chloroethyl) ether   UG/L   10   10   U   W-51   Bis(2-chloroethyl) ether   UG/L   10   10   U   W-51   Bis(2-chloroethyl) ether   UG/L   10   10   U   W-51   Bis(2-chloroethyl) ether   UG/L   10   10   U   W-51   Bis(2-chloroethyl) ether   UG/L   10   10   U   W-51   Butylbenzylphthalate   UG/L   10   10   U   W-51   Butylbenzylphthalate   UG/L   10   10   U   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   U   U   W-51   Di-n-butylphthalate   UG/L   10   10   U   U   U   U   U   U   U   U   U	_MW-51	4-Chloro-3-methylphenol	UG/L	10	10	U		NA
MW-51         4-Methylphenol         UG/L         10         10         U           MW-51         4-Nitroaniline         UG/L         25         25         U           MW-51         Acenaphthene         UG/L         10         10         U           MW-51         Benzo(a)anthracene         UG/L         10         10         U           MW-51         Benzo(a)pyrene         UG/L         10         10         U           MW-51         Benzo(b)fluoranthene         UG/L         10         10         U           MW-51         Benzo(k)fluoranthene         UG/L         10         10         U           MW-51         Benzo(k)fluoranthene         UG/L         10         10         U           MW-51         Benzo(k)fluoranthene         UG/L         10         10         U           MW-51         Bis(2-chloroethoxy)methane         UG/L         10         10         U <td>MW-51</td> <td>4-Chloroaniline</td> <td>UG/L</td> <td>10</td> <td>10</td> <td>U</td> <td></td> <td>NA</td>	MW-51	4-Chloroaniline	UG/L	10	10	U		NA
MW-51         4-Nitrophenol         UG/L         25         25         U           MW-51         Acenaphthene         UG/L         10         10         U           MW-51         Acenaphthylene         UG/L         10         10         U           MW-51         Acenaphthylene         UG/L         10         10         U           MW-51         Benzo(a)anthracene         UG/L         10         10         U           MW-51         Benzo(a)pyrene         UG/L         10         10         U           MW-51         Benzo(b)fluoranthene         UG/L         10         10         U           MW-51         Benzo(g,hi)perylene         UG/L         10         10         U           MW-51         Benzo(k)fluoranthene         UG/L         10         10         U           MW-51         Benzo(k)fluoranthene         UG/L         10         10         U           MW-51         Benzo(k)fluoranthene         UG/L         10         10         U           MW-51         Bis(2-chloroethoxy)methane         UG/L         10         10         U           MW-51         Bis(2-chloroethy)phthalate         UG/L         10         10	MW-51	4-Chlorophenyl-phenyl ether	UG/L	10	10	Ü		NA
MW-51         4-Nitrophenol         UG/L         25         25         U           MW-51         Acenaphthene         UG/L         10         10         U           MW-51         Acenaphthylene         UG/L         10         10         U           MW-51         Anthracene         UG/L         10         10         U           MW-51         Benzo(a)apyrene         UG/L         10         10         U           MW-51         Benzo(a)pyrene         UG/L         10         10         U           MW-51         Benzo(b)fluoranthene         UG/L         10         10         U           MW-51         Benzo(g,h,i)perylene         UG/L         10         10         U           MW-51         Benzo(k)fluoranthene         UG/L         10         10         U           MW-51         Benzo(k)fluoranthene         UG/L         10         10         U           MW-51         Benzo(k)fluoranthene         UG/L         10         10         U           MW-51         Bis(2-chloroethay) ether         UG/L         10         10         U           MW-51         Bis(2-chloroethay) ether         UG/L         10         10         U<	MW-51	4-Methylphenol	UG/L	10	10	U		NA
MW-51         Acenaphthylene         UG/L         10         10         U           MW-51         Anthracene         UG/L         10         10         U           MW-51         Anthracene         UG/L         10         10         U           MW-51         Benzo(a)anthracene         UG/L         10         10         U           MW-51         Benzo(b)fluoranthene         UG/L         10         10         U           MW-51         Benzo(c)fluoranthene         UG/L         10         10         U           MW-51         Benzo(c)fluoranthene         UG/L         10         10         U           MW-51         Benzo(c)fluoranthene         UG/L         10         10         U           MW-51         Bis(2-chloroethoxy)methane         UG/L         10         10         U           MW-51         Bis(2-chloroethy) ether         UG/L         10         10         U           MW-51         Bis(2-chloroethy) ether         UG/L         10         10         U           MW-51         Bis(2-chloroethy) ether         UG/L         10         10         U           MW-51         Bis(2-chloroethy)         UG/L         10         10 </td <td>MW-51</td> <td></td> <td>UG/L</td> <td>25.</td> <td>25</td> <td>U</td> <td></td> <td>NA</td>	MW-51		UG/L	25.	25	U		NA
MW-51         Acenaphthylene         UG/L         10         10         U           MW-51         Anthracene         UG/L         10         10         U           MW-51         Anthracene         UG/L         10         10         U           MW-51         Benzo(a)anthracene         UG/L         10         10         U           MW-51         Benzo(b)fluoranthene         UG/L         10         10         U           MW-51         Benzo(c)fluoranthene         UG/L         10         10         U           MW-51         Benzo(c)fluoranthene         UG/L         10         10         U           MW-51         Benzo(c)fluoranthene         UG/L         10         10         U           MW-51         Bis(2-chloroethoxy)methane         UG/L         10         10         U           MW-51         Bis(2-chloroethy) ether         UG/L         10         10         U           MW-51         Bis(2-chloroethy) ether         UG/L         10         10         U           MW-51         Bis(2-chloroethy) ether         UG/L         10         10         U           MW-51         Bis(2-chloroethy)         UG/L         10         10 </td <td>MW-51</td> <td>4-Nitrophenol</td> <td>UG/L</td> <td>25</td> <td>25</td> <td>U .</td> <td></td> <td>NA</td>	MW-51	4-Nitrophenol	UG/L	25	25	U .		NA
MW-51         Acenaphthylene         UG/L         10         10         U           MW-51         Anthracene         UG/L         10         10         U           MW-51         Benzo(a)apyrene         UG/L         10         10         U           MW-51         Benzo(b)fluoranthene         UG/L         10         10         U           MW-51         Benzo(k)fluoranthene         UG/L         10         10         U           MW-51         Bis(2-chloroethoxy)methane         UG/L         10         10         U           MW-51         Bis(2-chloroethoxy)methane         UG/L         10         10         U         U           MW-51         Bis(2-chloroethoxy)methane         UG/L         10         10         U         U           MW-51         Bis(2-chloroethyl)phthalate         UG/L         10         10         U         U           MW-51         Di-n-oc				<del>†                                      </del>		U		NA .
MW-51         Anthracene         UG/L         10         10         U           MW-51         Benzo(a)anthracene         UG/L         10         10         U           MW-51         Benzo(b)fluoranthene         UG/L         10         10         U           MW-51         Benzo(c)fluoranthene         UG/L         10         10         U           MW-51         Benzo(s)fluoranthene         UG/L         10         10         U           MW-51         Benzo(s)fluoranthene         UG/L         10         10         U           MW-51         Benzo(s)fluoranthene         UG/L         10         10         U           MW-51         Bis(2-chloroethoxy)methane         UG/L         10         10         U           MW-51         bis(2-chloroethyl) ether         UG/L         10         10         U           MW-51         Bis(2-ethylhexyl)phthalate         UG/L         10         10         U           MW-51         Bis(2-ethylhexyl)phthalate         UG/L         10         10         U           MW-51         Bis(2-ethylhexyl)phthalate         UG/L         10         10         U           MW-51         Chrysene         UG/L         10 </td <td></td> <td>7//</td> <td>UG/L</td> <td>. 10</td> <td>10</td> <td>U</td> <td></td> <td>NA .</td>		7//	UG/L	. 10	10	U		NA .
MW-51         Benzo(a)pyrene         UG/L         10         10         U           MW-51         Benzo(b)fluoranthene         UG/L         10         10         U           MW-51         Benzo(b)fluoranthene         UG/L         10         10         U           MW-51         Benzo(k)fluoranthene         UG/L         10         10         U           MW-51         Bis(2-chloroethoxy)methane         UG/L         10         10         U           MW-51         Bis(2-chloroethoxy)methane         UG/L         10         10         U           MW-51         Bis(2-chloroethyl) ether         UG/L         10         10         U           MW-51         Bis(2-chloroethyl) ether         UG/L         10         10         U           MW-51         Bis(2-chlylnexyl)phthalate         UG/L         10         10         U           MW-51         Bis(2-chlylnexyl)phthalate         UG/L         10         10         U           MW-51         Bis(2-chlylnexyl)phthalate         UG/L         10         10         U           MW-51         Chrysene         UG/L         10         10         U         U           MW-51         Chrysene         UG/				<del> </del>	10			NA
MW-51         Benzo(b)fluoranthene         UG/L         10         10         U           MW-51         Benzo(b)fluoranthene         UG/L         10         10         U           MW-51         Benzo(k)fluoranthene         UG/L         10         10         U           MW-51         Bis(2-chloroethoxy)methane         UG/L         10         10         U           MW-51         Bis(2-chloroethoxy)methane         UG/L         10         10         U           MW-51         bis(2-chloroethoxy)methane         UG/L         10         10         U           MW-51         bis(2-chloroethyl) ether         UG/L         10         10         U           MW-51         Bis(2-chloroethyl)phthalate         UG/L         10         10         U           MW-51         Bis(2-chloroethyl)phthalate         UG/L         10         10         U           MW-51         Bis(2-chloroethyl)phthalate         UG/L         10         10         U           MW-51         Carbazole         UG/L         10         10         U           MW-51         Di-n-butylphthalate         UG/L         10         10         U           MW-51         Di-n-butylphthalate		Benzo(a)anthracene	UG/L	10	10	U		NA
MW-51         Benzo(b)fluoranthene         UG/L         10         10         U           MW-51         Benzo(k)fluoranthene         UG/L         10         10         U           MW-51         Bis(2-chloroethoxy)methane         UG/L         10         10         U           MW-51         Bis(2-chloroethy) ether         UG/L         10         10         U           MW-51         bis(2-chloroethy) ether         UG/L         10         10         U           MW-51         Bis(2-ethylhexyl)phthalate         UG/L         10         10         U           MW-51         Carbazole         UG/L         10         10         U         U           MW-51         Chrysene         UG/L         10         10         U         U           MW-51         Di-n-butylphthalate         UG/L         10         10         U         U           MW-51 <td< td=""><td></td><td></td><td></td><td><del></del></td><td></td><td>+</td><td></td><td>NA</td></td<>				<del></del>		+		NA
MW-51         Benzo(g,h,i)perylene         UG/L         10         10         U           MW-51         Benzo(k)fluoranthene         UG/L         10         10         U           MW-51         Bis(2-chloroethoxy)methane         UG/L         10         10         U           MW-51         bis(2-chloroethyl) ether         UG/L         10         10         U           MW-51         Bis(2-chlylexyl)phthalate         UG/L         10         10         U           MW-51         Burylbenzylphthalate         UG/L         10         10         U           MW-51         Burylbenzylphthalate         UG/L         10         10         U           MW-51         Carbazole         UG/L         10         10         U         U           MW-51         Carbazole         UG/L         10         10         U		· · · · · · · · · · · · · · · · · · ·	<del></del>	<del></del>	10	Ü		NA
MW-51         Benzo(k)fluoranthene         UG/L         10         10         U           MW-51         Bis(2-chloroethoxy)methane         UG/L         10         10         U           MW-51         bis(2-chloroethyl) ether         UG/L         10         10         U           MW-51         Bis(2-ethylhexyl)phthalate         UG/L         10         10         U           MW-51         Burylbenzylphthalate         UG/L         10         10         U           MW-51         Carbazole         UG/L         10         10         U           MW-51         Carbazole         UG/L         10         10         U           MW-51         Chrysene         UG/L         10         10         U           MW-51         Di-n-butylphthalate         UG/L         10         10         U           MW-51         Di-n-octylphthalate         UG/L         10         10         U           MW-51         Dibenzo(a,h)anthracene         UG/L         10         10         U           MW-51         Dibenzo(a,h)anthracene         UG/L         10         10         U           MW-51         Dibenzo(a,h)anthracene         UG/L         10         10				<del></del>		+		NA
MW-51         Bis(2-chloroethyx)) ether         UG/L         10         10         U           MW-51         bis(2-chloroethyl) ether         UG/L         10         10         U           MW-51         Bis(2-ethylhexyl)phthalate         UG/L         10         10         U           MW-51         Butylbenzylphthalate         UG/L         10         10         U           MW-51         Carbazole         UG/L         10         10         U           MW-51         Chrysene         UG/L         10         10         U           MW-51         Di-n-butylphthalate         UG/L         10         10         U           MW-51         Di-n-butylphthalate         UG/L         10         10         U           MW-51         Di-n-octylphthalate         UG/L         10         10         U           MW-51         Dibenzofa.h)anthracene         UG/L         10	<del></del>			<del>,</del>				NA
MW-51         bis(2-chloroethyl) ether         UG/L         10         10         U           MW-51         Bis(2-ethylhexyl)phthalate         UG/L         10         10         U           MW-51         Butylbenzylphthalate         UG/L         10         10         U           MW-51         Carbazole         UG/L         10         10         U           MW-51         Chrysene         UG/L         10         10         U           MW-51         Di-n-butylphthalate         UG/L         10         10         U           MW-51         Di-n-butylphthalate         UG/L         10         10         U           MW-51         Dibenzo(a,h)anthracene         UG/L         10         10         U           MW-51         Dibenzofuran         UG/L         10         10         U           MW-51         Diethylphthalate         UG/L         10         10         U		——————————————————————————————————————	_	-		<del></del>		NA
MW-51         Bis(2-ethylhexyl)phthalate         UG/L         10         10         U           MW-51         Butylbenzylphthalate         UG/L         10         10         U           MW-51         Carbazole         UG/L         10         10         U           MW-51         Chrysene         UG/L         10         10         U           MW-51         Di-n-butylphthalate         UG/L         10         10         U           MW-51         Di-n-octylphthalate         UG/L         10         10         U           MW-51         Di-n-octylphthalate         UG/L         10         10         U           MW-51         Dibenzo(a,h)anthracene         UG/L         10         10         U           MW-51         Dibenzofuran         UG/L         10         10         U           MW-51         Diethylphthalate         UG/L         10         10         U           MW-51         Diethylphthalate         UG/L         10         10         U           MW-51         Pluorene         UG/L         10         10         U           MW-51         Fluorene         UG/L         10         10         U			<del></del>	<del></del>				NA
MW-51         Butylbenzylphthalate         UG/L         10         10         U           MW-51         Carbazole         UG/L         10         10         U           MW-51         Chrysene         UG/L         10         10         U           MW-51         Di-n-butylphthalate         UG/L         10         10         U           MW-51         Di-n-octylphthalate         UG/L         10         10         U           MW-51         Dibenzo(a,h)anthracene         UG/L         10         10         U           MW-51         Dibenzofuran         UG/L         10         10         U           MW-51         Dibenzofuran         UG/L         10         10         U           MW-51         Dientylphthalate         UG/L         10         10         U           MW-51         Dientylphthalate         UG/L         10         10         U           MW-51         Dientylphthalate         UG/L         10         10         U           MW-51         Pluoranthene         UG/L         10         10         U           MW-51         Fluoranthene         UG/L         10         10         U           <		<del></del>		<del></del>			· ·	NA
MW-51         Carbazole         UG/L         10         10         U           MW-51         Chrysene         UG/L         10         10         U           MW-51         Di-n-butylphthalate         UG/L         10         10         U           MW-51         Di-n-octylphthalate         UG/L         10         10         U           MW-51         Dibenzofuran         UG/L         10         10         U           MW-51         Dibenzofuran         UG/L         10         10         U           MW-51         Diethylphthalate         UG/L         10         10         U           MW-51         Plexachlorothalate         UG/L         10         10         U           MW-51         Hexachlorobenzene         UG/L         10         10         U				<del> </del>				NA
MW-51         Chrysene         UG/L         10         10         U           MW-51         Di-n-butylphthalate         UG/L         10         10         U           MW-51         Di-n-octylphthalate         UG/L         10         10         U           MW-51         Dibenzo(a,h)anthracene         UG/L         10         10         U           MW-51         Dibenzofuran         UG/L         10         10         U           MW-51         Diethylphthalate         UG/L         10         10         U           MW-51         Dimethylphthalate         UG/L         10         10         U           MW-51         Fluoranthene         UG/L         10         10         U           MW-51         Hexachlorobenzene         UG/L         10         10         U           MW-51         Hexachlorobenzentane         UG/L         10         10         U		<del></del>		<del></del> +				NA
MW-51         Di-n-butylphthalate         UG/L         10         10         U           MW-51         Di-n-octylphthalate         UG/L         10         10         U           MW-51         Dibenzo(a,h)anthracene         UG/L         10         10         U           MW-51         Dibenzofuran         UG/L         10         10         U           MW-51         Diethylphthalate         UG/L         10         10         U           MW-51         Fluoranthene         UG/L         10         10         U           MW-51         Hexachlorobetraene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U     <				<del></del>				NA
MW-51         Di-n-octylphthalate         UG/L         10         10         U           MW-51         Dibenzo(a,h)anthracene         UG/L         10         10         U           MW-51         Dibenzofuran         UG/L         10         10         U           MW-51         Diethylphthalate         UG/L         10         10         U           MW-51         Dimethylphthalate         UG/L         10         10         U           MW-51         Fluoranthene         UG/L         10         10         U           MW-51         Fluoranthene         UG/L         10         10         U           MW-51         Fluorene         UG/L         10         10         U           MW-51         Hexachlorobenzene         UG/L         10         10         U           MW-51         Hexachlorobutadiene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Indeno(1,2,3-cd)pyrene         UG/L         10         U      <								NA
MW-51         Dibenzo(a,h)anthracene         UG/L         10         U           MW-51         Dibenzofuran         UG/L         10         10         U           MW-51         Diethylphthalate         UG/L         10         10         U           MW-51         Dimethylphthalate         UG/L         10         10         U           MW-51         Fluoranthene         UG/L         10         10         U           MW-51         Fluorene         UG/L         10         10         U           MW-51         Hexachlorobenzene         UG/L         10         10         U           MW-51         Hexachlorobutadiene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Indeno(1,2,3-cd)pyrene         UG/L         10         10         U           MW-51         Indeno(1,2,3-cd)pyrene         UG/L         10         U         U								NA
MW-51         Dibenzofuran         UG/L         10         10         U           MW-51         Diethylphthalate         UG/L         10         10         U           MW-51         Dimethylphthalate         UG/L         10         10         U           MW-51         Fluoranthene         UG/L         10         10         U           MW-51         Fluorene         UG/L         10         10         U           MW-51         Hexachlorobenzene         UG/L         10         10         U           MW-51         Hexachlorobutadiene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Indeno(1,2,3-cd)pyrene         UG/L         10         10         U           MW-51         Isophorone         UG/L         10         10         U           MW-51         N-Nitrosodi-n-propylamine         UG/L         10         10         U           MW-51         Naphthalene         UG/L         10         10         U			_					NA
MW-51         Diethylphthalate         UG/L         10         10         U           MW-51         Dimethylphthalate         UG/L         10         10         U           MW-51         Fluoranthene         UG/L         10         10         U           MW-51         Fluorene         UG/L         10         10         U           MW-51         Hexachlorobenzene         UG/L         10         10         U           MW-51         Hexachlorobutadiene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Indeno(1,2,3-cd)pyrene         UG/L         10         10         U           MW-51         Isophorone         UG/L         10         10         U           MW-51         N-Nitroso-di-n-propylamine         UG/L         10         10         U           MW-51         Naphthalene         UG/L         10         10								NA
MW-51         Dimethylphthalate         UG/L         10         10         U           MW-51         Fluoranthene         UG/L         10         10         U           MW-51         Fluorene         UG/L         10         10         U           MW-51         Hexachlorobenzene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Hexachloroethane         UG/L         10         10         U           MW-51         Indeno(1,2,3-cd)pyrene         UG/L         10         10         U           MW-51         Isophorone         UG/L         10         10         U           MW-51         N-Nitroso-di-n-propylamine         UG/L         10         10         U           MW-51         N-Nitrosodiphenylamine         UG/L         10         10         U           MW-51         Naphthalene         UG/L         10         10         U           MW-51         Nitrobenzene         UG/L         10         10         U           MW-51         Pentachlorophenol         UG/L         25         25         U </td <td></td> <td></td> <td></td> <td><del></del></td> <td></td> <td></td> <td></td> <td>NA</td>				<del></del>				NA
MW-51         Fluoranthene         UG/L         10         10         U           MW-51         Fluorene         UG/L         10         10         U           MW-51         Hexachlorobenzene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Indeno(1,2,3-cd)pyrene         UG/L         10         10         U           MW-51         Isophorone         UG/L         10         10         U           MW-51         N-Nitroso-di-n-propylamine         UG/L         10         10         U           MW-51         N-Nitrosodiphenylamine         UG/L         10         10         U           MW-51         Naphthalene         UG/L         10         10         U           MW-51         Nitrobenzene         UG/L         10         10         U           MW-51         Pentachlorophenol         UG/L         25         25         U           MW-51         Phenanthrene         UG/L         10         10         U								NA
MW-51         Fluorene         UG/L         10         10         U           MW-51         Hexachlorobenzene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Hexachlorocthane         UG/L         10         10         U           MW-51         Indeno(1,2,3-cd)pyrene         UG/L         10         10         U           MW-51         Isophorone         UG/L         10         10         U           MW-51         N-Nitroso-di-n-propylamine         UG/L         10         10         U           MW-51         N-Nitrosodiphenylamine         UG/L         10         10         U           MW-51         Naphthalene         UG/L         10         10         U           MW-51         Nitrobenzene         UG/L         10         10         U           MW-51         Pentachlorophenol         UG/L         25         25         U           MW-51         Phenanthrene         UG/L         10         10         U					10	_		NA
MW-51         Hexachlorobenzene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Hexachloroethane         UG/L         10         10         U           MW-51         Indeno(1,2,3-cd)pyrene         UG/L         10         10         U           MW-51         Isophorone         UG/L         10         10         U           MW-51         N-Nitroso-di-n-propylamine         UG/L         10         10         U           MW-51         N-Nitrosodiphenylamine         UG/L         10         10         U           MW-51         Naphthalene         UG/L         10         10         U           MW-51         Nitrobenzene         UG/L         10         10         U           MW-51         Pentachlorophenol         UG/L         25         25         U           MW-51         Phenanthrene         UG/L         10         10         U					10	U		NA
MW-51         Hexachlorobutadiene         UG/L         10         10         U           MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Hexachloroethane         UG/L         10         10         U           MW-51         Indeno(1,2,3-cd)pyrene         UG/L         10         10         U           MW-51         Isophorone         UG/L         10         10         U           MW-51         N-Nitroso-di-n-propylamine         UG/L         10         10         U           MW-51         N-Nitrosodiphenylamine         UG/L         10         10         U           MW-51         Naphthalene         UG/L         10         10         U           MW-51         Nitrobenzene         UG/L         10         10         U           MW-51         Pentachlorophenol         UG/L         25         25         U           MW-51         Phenanthrene         UG/L         10         10         U				10	10	U	1	NA
MW-51         Hexachlorocyclopentadiene         UG/L         10         10         U           MW-51         Hexachloroethane         UG/L         10         10         U           MW-51         Indeno(1,2,3-cd)pyrene         UG/L         10         10         U           MW-51         Isophorone         UG/L         10         10         U           MW-51         N-Nitroso-di-n-propylamine         UG/L         10         10         U           MW-51         N-Nitrosodiphenylamine         UG/L         10         10         U           MW-51         Naphthalene         UG/L         10         10         U           MW-51         Nitrobenzene         UG/L         10         10         U           MW-51         Pentachlorophenol         UG/L         25         25         U           MW-51         Phenanthrene         UG/L         10         10         U				<del></del>		<del></del>		NA
MW-51         Hexachloroethane         UG/L         10         10         U           MW-51         Indeno(1,2,3-cd)pyrene         UG/L         10         10         U           MW-51         Isophorone         UG/L         10         10         U           MW-51         N-Nitroso-di-n-propylamine         UG/L         10         10         U           MW-51         N-Nitrosodiphenylamine         UG/L         10         10         U           MW-51         Naphthalene         UG/L         10         10         U           MW-51         Nitrobenzene         UG/L         10         10         U           MW-51         Pentachlorophenol         UG/L         25         25         U           MW-51         Phenanthrene         UG/L         10         10         U						<del></del>		NA
MW-51         Indeno(1,2,3-cd)pyrene         UG/L         10         10         U           MW-51         Isophorone         UG/L         10         10         U           MW-51         N-Nitroso-di-n-propylamine         UG/L         10         10         U           MW-51         N-Nitrosodiphenylamine         UG/L         10         10         U           MW-51         Naphthalene         UG/L         10         10         U           MW-51         Nitrobenzene         UG/L         10         10         U           MW-51         Pentachlorophenol         UG/L         25         25         U           MW-51         Phenanthrene         UG/L         10         10         U				-		<del></del>		NA
MW-51         Isophorone         UG/L         10         10         U           MW-51         N-Nitroso-di-n-propylamine         UG/L         10         10         U           MW-51         N-Nitrosodiphenylamine         UG/L         10         10         U           MW-51         Naphthalene         UG/L         10         10         U           MW-51         Nitrobenzene         UG/L         10         10         U           MW-51         Pentachlorophenol         UG/L         25         25         U           MW-51         Phenanthrene         UG/L         10         10         U						<del></del>		NA
MW-51         N-Nitroso-di-n-propylamine         UG/L         10         10         U           MW-51         N-Nitrosodiphenylamine         UG/L         10         10         U           MW-51         Naphthalene         UG/L         10         10         U           MW-51         Nitrobenzene         UG/L         10         10         U           MW-51         Pentachlorophenol         UG/L         25         25         U           MW-51         Phenanthrene         UG/L         10         10         U		<del></del>		<del> </del>				NA
MW-51         N-Nitrosodiphenylamine         UG/L         10         10         U           MW-51         Naphthalene         UG/L         10         10         U           MW-51         Nitrobenzene         UG/L         10         10         U           MW-51         Pentachlorophenol         UG/L         25         25         U           MW-51         Phenanthrene         UG/L         10         10         U				-		<del></del>		NA
MW-51         Naphthalene         UG/L         10         10         U           MW-51         Nitrobenzene         UG/L         10         10         U           MW-51         Pentachlorophenol         UG/L         25         25         U           MW-51         Phenanthrene         UG/L         10         10         U	···	· · · · · · · · · · · · · · · · · · ·	<del></del>			<del></del>		NA
MW-51         Nitrobenzene         UG/L         10         10         U           MW-51         Pentachlorophenol         UG/L         25         25         U           MW-51         Phenanthrene         UG/L         10         10         U		· · · · · · · · · · · · · · · · · · ·						NA
MW-51         Pentachlorophenol         UG/L         25         25         U           MW-51         Phenanthrene         UG/L         10         10         U				<del></del>				NA
MW-51 Phenanthrene UG/L 10 10 U	<del></del>	<del></del>						NA
<del></del>				<del></del>			· · · · · · · · · · · · · · · · · · ·	NA
	MW-51	Phenol	UG/L	25	10	U	<del> </del>	NA NA
MW-51 Pyrene UG/L 10 10 U						<del></del>	1	NA NA
MW-51 Fyletic UG/L 10 10 U		<del>+</del>	_	<del>•</del>			<del> </del>	NA NA
MW-52 1,2-4-11ctnorobenzene UG/L 10 10 U		······································		<del></del>			<del> </del>	NA NA
MW-52 1,3-Dichlorobenzene UG/L 10 10 U				<del></del>			<del> </del>	NA NA
MW-52 1,3-Dichlorobenzene UG/L 10 10 U		· · · · · · · · · · · · · · · · · · ·		<del> </del>		_	+	NA NA

BOLD: = Exceedance

#### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-52	2,2'-oxybis(1-Chloropropane)	UG/L	10	10	U		NA
MW-52	2,4,5-Trichlorophenol	UG/L	25	25	U		NA ,
MW-52	2,4,6-Trichlorophenol	UG/L	10	10	U		NA
MW-52	2,4-Dichlorophenol	UG/L	10	10	U	UJ	NA
MW-52	2,4-Dimethylphenol	UG/L	10	10	U		NA
MW-52	2,4-Dinitrophenol	UG/L	25	. 25	Ü		NA
MW-52	2,4-Dinitrotoluene	UG/L	10	10	U		- NA
MW-52	2,6-Dinitrotoluene	UG/L	10	10	U	<u> </u>	NA_
MW-52	2-Chloronaphthalene	UG/L	10	10	U		NA
MW-52	2-Chlorophenol	UG/L	10	10	U		NA
MW-52	2-Methylnaphthalene	UG/L	10	10	U		NA_
MW-52	2-Methylphenol	UG/L	10	10	U		NA
MW-52	2-Nitroaniline	UG/L	25	25	U		NA
_MW-52	2-Nitrophenol	UG/L	10	10	U		NA
MW-52	3,3'-Dichlorobenzidine	UG/L	10	10	U	UJ	NA
MW-52	3-Nitroaniline	UG/L	25	25	U	ļ	NA
MW-52	4.6-Dinitro-2-methylphenol	UG/L	25	25	U	ļ	NA_
MW-52	4-Bromophenyl-phenylether	UG/L	10	10	U		NA_
MW-52	4-Chloro-3-methylphenol	UG/L	10	10	U	ļ	NA_
MW-52	4-Chloroaniline	UG/L	10	10	U	ļ	NA
MW-52	4-Chlorophenyl-phenyl ether	UG/L	10	10	U	ļ	NA
MW-52	4-Methylphenol	UG/L	10	10	U	ļ	NA
MW-52	4-Nitroaniline	UG/L	25	25	U	<del> </del>	NA_
MW-52	4-Nitrophenol	UG/L	25	25	U	ļ	NA_
MW-52	Acenaphthene	UG/L	10	10	U	<del> </del>	NA
MW-52	Acenaphthylene	UG/L	10	10	U	-	NA
MW-52	Anthracene	UG/L	10	10	U	<del> </del>	NA NA
MW-52	Benzo(a)anthracene	UG/L	10	10	U	<del> </del>	NA NA
MW-52	Benzo(a)pyrene	UG/L	10	10	U	<del> </del>	NA NA
MW-52	Benzo(b)fluoranthene	UG/L	10	10	U	ļ	NA
MW-52	Benzo(g,h,i)perylene	UG/L	10	10	U	<del> </del> -	NA
MW-52	Benzo(k)fluoranthene	UG/L	10	10	U	<del> </del>	NA
MW-52	Bis(2-chloroethoxy)methane	UG/L	10	10	U	<del> </del>	NA
MW-52	bis(2-chloroethyl) ether	UG/L	10	10	U	<del> </del>	NA
MW-52	Bis(2-ethylhexyl)phthalate	UG/L	39	6	↓ J	J_	0.01
MW-52	Butylbenzylphthalate	UG/L	10	10	U	<del>├</del> -	NA NA
MW-52	Carbazole	UG/L	10	10	U	<del> </del>	NA NA
MW-52	Chrysene	UG/L	10	10	U	ļ	NA
MW-52	Di-n-butylphthalate	UG/L	10	10	U	<del> </del>	NA.
MW-52	Di-n-octylphthalate	UG/L	10	10	U	<del> </del> -	NA NA
MW-52	Dibenzo(a,h)anthracene	UG/L	10	10	U	<del> </del>	NA_
MW-52	Dibenzofuran	UG/L	10	10	U	<u> </u>	NA NA
MW-52	Diethylphthalate	UG/L	10	10	U	<del> </del> -	NA_
MW-52	Dimethylphthalate	UG/L	10	10	U	<b> </b>	NA
MW-52	Fluoranthene	UG/L	10	10	U	<b>ļ</b>	NA
MW-52	Fluorene	UG/L	10	10	U	<u> </u>	NA

\*BOLD\* = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-52	Hexachlorobenzene	UG/L	10	10	U		NA
MW-52	Hexachlorobutadiene	UG/L	10	10	U		NA
MW-52	Hexachlorocyclopentadiene	UG/L	10	10	U		NA
MW-52	Hexachloroethane	UG/L	10	10	U		NA
MW-52	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U		NA
MW-52	Isophorone	UG/L	10	10	U		NA
MW-52	N-Nitroso-di-n-propylamine	UG/L	10	10	U		NA
MW-52	N-Nitrosodiphenylamine	UG/L	10	10	U		NA
MW-52	Naphthalene	UG/L	· 10	10	U		NA
MW-52	Nitrobenzene:	UG/L	- 10	10	Ū·		NA
MW-52	Pentachlorophenol	UG/L	25	25	U		NA
MW-52	Phenanthrene	UG/L	10	10	U		NA
MW-52	Phenol	UG/L	33	10	U		NA
MW-52	Pyrene	UG/L	10	10	U		NA
MW-54R	1,2,4-Trichlorobenzene	UG/L	30	10	U	UJ	NA
MW-54R	1,2-Dichlorobenzene	UG/L	30	10	U	UJ	NA
MW-54R	1,3-Dichlorobenzene	UG/L	30	10	U	UJ	NA
MW-54R	1,4-Dichlorobenzene	UG/L	30	10	U	UJ	NA
MW-54R	2,2'-oxybis(1-Chloropropane)	UG/L	30	10	U	UJ	NA
	2,4.5-Trichlorophenol	UG/L	75	25	U	UJ	NA
	2,4,6-Trichlorophenol	UG/L	. 30	10	U	UJ	NA
	2,4-Dichlorophenol	UG/L	30	10	U	UJ	NA
MW-54R	2,4-Dimethylphenol	UG/L	30	10	U	UJ	NA
MW-54R	2,4-Dinitrophenol	UG/L	75	25	U	UJ	NA
MW-54R	2,4-Dinitrotoluene	UG/L	30	10	U	UJ	NA
MW-54R	2,6-Dinitrotoluene	UG/L	30	10	U	UJ	NA
MW-54R	2-Chloronaphthalene	UG/L	30	10	U	UJ	NA.
MW-54R	2-Chlorophenol	UG/L	30	10	U	UJ	NA
MW-54R	2-Methylnaphthalene	UG/L	30	10	U	UJ	NA
MW-54R	2-Methylphenol	UG/L	30	10	Ü	UJ	NA
MW-54R	2-Nitroaniline	UG/L	75	25	U	UJ	NA
MW-54R	2-Nitrophenol	UG/L	30	10	U	UJ	NA
MW-54R	3,3'-Dichlorobenzidine	UG/L	30	10	U	UJ	NA
MW-54R	3-Nitroaniline	UG/L	75	25	U	UJ	NA
		UG/L	75	25	U	UJ	NA
MW-54R	4-Bromophenyl-phenylether	UG/L	30	10	U	UJ	NA
MW-54R	4-Chloro-3-methylphenol	UG/L	30	10	U	UJ	NA
MW-54R	4-Chloroaniline	UG/L	30	10	U	UJ	NA
MW-54R	4-Chlorophenyl-phenyl ether	UG/L	30	10	U	UJ	NA
MW-54R	4-Methylphenol	UG/L	30	10	U	UJ	NA
MW-54R	4-Nitroaniline	UG/L	75	25	U	UJ	NA
MW-54R	4-Nitrophenol	UG/L	75	25	U	UJ	NA
MW-54R	Acenaphthene	UG/L	30	10	U	UJ	NA
MW-54R	Acenaphthylene	UG/L	30	10	Ü	UJ	NA
MW-54R	Anthracene	UG/L	30	10	U	UJ	NA
MW-54R	Benzo(a)anthracene	UG/L	30	10	U	UJ	NA

BOLD = Exceedance

#### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect	· · · · · · · · · · · · · · · · · ·	Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-54R	Benzo(a)pyrene	UG/L	30	10	U	UJ	NA
MW-54R	Benzo(b)fluoranthene	UG/L	30	10	U	UJ	NA
MW-54R	Benzo(g,h,i)perylene	UG/L	30	10	U	UJ	NA
MW-54R	Benzo(k)fluoranthene	UG/L	30	10	U	UJ	NA
MW-54R	Bis(2-chloroethoxy)methane	UG/L	30	10	U	UJ	NA
MW-54R	bis(2-chloroethyl) ether	UG/L	30	10	U	UĴ	· NA
MW-54R	Bis(2-ethylhexyl)phthalate	UG/L	39	10	U	UJ	NA
MW-54R	Butylbenzylphthalate	UG/L	30	10	U	UJ_	- NA
MW-54R	Carbazole	UG/L	30	10	U	UJ	NA
MW-54R	Chrysene	UG/L	30	10	U	UJ	NA
MW-54R	Di-n-butylphthalate	UG/L	30	10	U	UJ	NA
MW-54R	Di-n-octylphthalate	UG/L_	30	10	U	UJ	NA
MW-54R	Dibenzo(a,h)anthracene	UG/L	30	10	U	ÚJ	NA
MW-54R	Dibenzofuran	UG/L	30	10	U	UJ	NA
MW-54R	Diethylphthalate	UG/L	30	10	U	UJ	NA
MW-54R	Dimethylphthalate	UG/L	30	10	U	UJ	NA
MW-54R	Fluoranthene	UG/L	30	10	U	UJ	NA
MW-54R	Fluorene	UG/L_	30	10	U	UJ_	NA_
MW-54R	Hexachlorobenzene	UG/L	30	10	U	UJ	NA
MW-54R	Hexachlorobutadiene	UG/L_	30	10	U	UJ	NA
MW-54R	Hexachlorocyclopentadiene	UG/L	30	10	U	UJ	NA
MW-54R	Hexachloroethane	UG/L	30	10	U	UJ_	NA
MW-54R	Indeno(1,2,3-cd)pyrene	UG/L	30	10	Ŭ	UJ	NA
MW-54R	Isophorone	UG/L_	30	10	U	UJ_	NA
MW-54R	N-Nitroso-di-n-propylamine	UG/L	30	10	U	UJ	NA
MW-54R	N-Nitrosodiphenylamine	UG/L	30	10	U	UJ	NA
MW-54R	Naphthalene	UG/L	30	10	U	ŲJ	NA
MW-54R	Nitrobenzene	UG/L	30	10	U	UJ	NA
MW-54R	Pentachlorophenol	UG/L	75	25	U	UJ	NA
MW-54R	Phenanthrene	UG/L	30	10	U	UJ_	NA
MW-54R	Phenol	UG/L	160	10	U	UJ_	NA
MW-54R	Pyrene	UG/L	30	10	U	UJ _	NA
MW-55	1,2,4-Trichlorobenzene	UG/L	10	10	U	UJ	NA
MW-55	1.2-Dichlorobenzene	UG/L	10	10	Ü	UJ	NA
MW-55	1.3-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-55	1,4-Dichlorobenzene	UG/L	10	10	U	UJ	NA
MW-55	2.2'-oxybis(1-Chloropropane)	UG/L	10	10	U	UJ_	NA
MW-55	2.4.5-Trichlorophenol	UG/L	25	25	U	UJ	NA
MW-55	2.4,6-Trichlorophenol	UG/L_	10	10	U	UJ	NA
MW-55	2,4-Dichlorophenol	UG/L	10	10	U	UJ	NA
MW-55	2,4-Dimethylphenol	UG/L	10	10	U	UJ	NA
MW-55	2,4-Dinitrophenol	UG/L	25	25	U	UJ	NA
MW-55	2.4-Dinitrotoluene	UG/L	10	10	U	UJ	NA
MW-55	2.6-Dinitrotoluene	UG/L	10	10	Ū	UJ	NA
MW-55	2-Chloronaphthalene	UG/L	10	10	Ü	UJ	NA
MW-55	2-Chlorophenol	UG/L	10	10	Ū	UJ	NA

**BOLD** = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	-
			during Baseline	Result	LQ	DQ	Detect Limit
MW-55	2-Methylnaphthalene	UG/L	10	10	U	UJ	NA
MW-55	2-Methylphenol	UG/L	10	10	U	UJ	NA
MW-55	2-Nitroaniline	UG/L	: 25	25	U	UJ	NA
MW-55	2-Nitrophenol	UG/L	10	10_	U	UJ	NA
MW-55	3,3'-Dichlorobenzidine	UG/L	10	10	U	UJ	NA
MW-55	3-Nitroaniline	UG/L	25	25	'U	UJ	NA
MW-55	4,6-Dinitro-2-methylphenol	UG/L	25	25	U	UJ	NA
MW-55	4-Bromophenyl-phenylether	UG/L	10	10	U	UJ	NA
MW-55	4-Chloro-3-methylphenol	UG/L	10	10	U	.UJ	NA
MW-55	4-Chloroaniline	UG/L	10	10	U	;UJ	NA
MW-55	4-Chlorophenyl-phenyl ether	UG/L	10	10	U	UJ	NA
MW-55	4-Methylphenol	UG/L	10	10	U	UJ	NA
MW-55	4-Nitroaniline	UG/L	25	25	U	UJ	NA
MW-55	4-Nitrophenol	UG/L	25	25	U	UJ	NA
MW-55	Acenaphthene	UG/L	10	10	U_	UJ	NA
MW-55	Acenaphthylene	UG/L	10	10	U	UJ	NA
MW-55	Anthracene	UG/L	10	10	U_	UJ	NA
MW-55	Benzo(a)anthracene	UG/L	10	10	U	UJ	NA
MW-55	Benzo(a)pyrene	UG/L	10	10	U	UJ	NA
MW-55	Benzo(b)fluoranthene	UG/L	10	10	U	UJ	NA
MW-55	Benzo(g,h,i)perylene	UG/L	10	10	U	UJ	NA
.MW-55	Benzo(k)fluoranthene	UG/L	10	10	U	UJ	ΝA
MW-55	Bis(2-chloroethoxy)methane	UG/L	10	10	U	UJ	NA
MW-55	bis(2-chloroethyl) ether	UG/L	10	10	U	.UJ	NA
MW-55	Bis(2-ethylhexyl)phthalate	UG/L	40	2	J	J	0.01
MW-55	Butylbenzylphthalate	UG/L	10	10_	U	UJ _	NA
MW-55	Carbazole	UG/L	10	10	U	UJ	NA
MW-55	Chrysene	UG/L	10	10	U	UJ _	NA
MW-55	Di-n-butylphthalate	UG/L	10	10_	U	UJ	NA
MW-55	Di-n-octylphthalate	UG/L	10	10	U	UJ	NA
MW-55	Dibenzo(a,h)anthracene	UG/L	10	10_	U	UJ	NA
MW-55	Dibenzofuran	UG/L	10	10	U	UJ	NA
MW-55	Diethylphthalate	UG/L	10	10	U	UJ	NA
MW-55	Dimethylphthalate	UG/L	10	10	U	UJ	NA
MW-55	Fluoranthene	UG/L	10	10	U	UJ	NA
MW-55	Fluorene	UG/L	10	10	U	UJ	NA
MW-55	Hexachlorobenzene	UG/L	10	10	U	UJ	NA
MW-55	Hexachlorobutadiene	UG/L	10	10	U	UJ	NA
MW-55	Hexachlorocyclopentadiene	UG/L	10	10	U	UJ	NA
MW-55	Hexachloroethane	UG/L	10	10	U	UJ	NA
MW-55	Indeno(1,2,3-cd)pyrene	UG/L	10	10	U	UJ	NA
MW-55	Isophorone	UG/L	10	10	U	UJ	NA
MW-55	N-Nitroso-di-n-propylamine	UG/L	10	10	U	UJ	NA
MW-55	N-Nitrosodiphenylamine	UG/L	10	10	U	UJ	NA
MW-55	Naphthalene	UG/L	10	10	U	UJ	NA
MW-55	Nitrobenzene	UG/L	10	10	U	UJ	NA

BOLD = Exceedance

## American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-55	Pentachlorophenol	UG/L	25	25	U	UJ	NA
MW-55	Phenanthrene	UG/L	10	10	U	UJ	NA NA
MW-55	Phenol	UG/L	39	10	U	UJ	NA
MW-55	Pyrene	UG/L	10	10	U	UJ	NA
WM-53	1,2,4-Trichlorobenzene	UG/L		10 .	U		NA
WM-53	1,2-Dichlorobenzene	UG/L_		10	U	l	NA
WM-53	1,3-Dichlorobenzene	UG/L_		10	U		NA
WM-53	1,4-Dichlorobenzene	UG/L	:	10	U		NA
WM-53	2,2'-oxybis(1-Chloropropane)	UG/L		10	U		NA
WM-53	2,4,5-Trichlorophenol .	UG/L_		25	U		NA
WM-53	2,4,6-Trichlorophenol	UG/L		10	U		NA
WM-53	2,4-Dichlorophenol	UG/L		10	U		NA
WM-53	2,4-Dimethylphenol	UG/L		10	U		NA
WM-53	2,4-Dinitrophenol	UG/L		25	U	UJ	NA
WM-53	2,4-Dinitrotoluene	UG/L		10	U	UJ	NA
WM-53	2,6-Dinitrotoluene	UG/L		10	U		NA
WM-53	2-Chloronaphthalene	UG/L		10	U		NA _
WM-53	2-Chlorophenol	UG/L		10	U		NA
WM-53	2-Methylnaphthalene	UG/L		10	U		NA
WM-53	2-Methylphenol	UG/L		10	U		NA
WM-53	2-Nitroaniline	UG/L		25	U		NA
WM-53	2-Nitrophenol	UG/L		10	U		. NA
WM-53	3,3'-Dichlorobenzidine	UG/L		10	U		NA
WM-53	3-Nitroaniline	UG/L		25	U		NA
WM-53	4,6-Dinitro-2-methylphenol	UG/L		25	U	UJ	NA
WM-53	4-Bromophenyl-phenylether	UG/L		10	U		NA
WM-53	4-Chloro-3-methylphenol	UG/L		10	U		. NA
WM-53	4-Chloroaniline	UG/L		10	U		NA
WM-53	4-Chlorophenyl-phenyl ether	UG/L		10	U		- NA
WM-53	4-Methylphenol	UG/L		10	Ŭ		NA
WM-53	4-Nitroaniline	UG/L		25	U		NA
WM-53	4-Nitrophenol	UG/L		25	U		NA
WM-53	Acenaphthene	UG/L		10	U		NA
WM-53	Acenaphthylene	UG/L		10	U		NA
WM-53	Anthracene	UG/L		10	U		NA
WM-53	Benzo(a)anthracene	UG/L		10	U		NA
WM-53	Benzo(a)pyrene	UG/L		10	U		NA
WM-53	Benzo(b)fluoranthene	UG/L		10	Ü		NA
WM-53	Benzo(g,h,i)perylene	UG/L		10	U		NA
WM-53	Benzo(k)fluoranthene	UG/L		10	U		NA
WM-53	Bis(2-chloroethoxy)methane	UG/L		10	U		NA
WM-53	bis(2-chloroethyl) ether	UG/L		10	U		NA
WM-53	Bis(2-ethylhexyl)phthalate	UG/L		14			0.01
WM-53	Butylbenzylphthalate	UG/L		10	U		NA
WM-53	Carbazole	UG/L		10	Ü		NA
WM-53	Chrysene	UG/L		10	U		NA



#### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
WM-53	Di-n-butylphthalate	UG/L		10	U		NA
WM-53	Di-n-octylphthalate	UG/L		10	U		NA
WM-53	Dibenzo(a,h)anthracene	UG/L	:	10	U		NA
WM-53	Dibenzofuran	UG/L		10	U		NA
WM-53	Diethylphthalate	UG/L		10	U		NA
WM-53	Dimethylphthalate	UG/L		10	Ú	,	NA
WM-53	Fluoranthene	UG/L		10	U		NA
WM-53	Fluorene	UG/L		10	U		NA
WM-53	Hexachlorobenzene	UG/L	·[	10	U		NA
WM-53	Hexachlorobutadiene	UG/L	1	10	U	:	NA
WM-53	Hexachlorocyclopentadiene	UG/L		10	U		NA
WM-53	Hexachloroethane	UG/L		10	U		NA
WM-53	Indeno(1,2,3-cd)pyrene	UG/L		10	U		NA
WM-53	Isophorone	UG/L		10	U		NA
WM-53	N-Nitroso-di-n-propylamine	UG/L		10	U		NA
WM-53	N-Nitrosodiphenylamine	UG/L		10	U		NA
WM-53	Naphthalene	UG/L		10	U		NA
WM-53	Nitrobenzene	UG/L		10	U		NA NA
WM-53	Pentachlorophenol	UG/L		25	U		NA
WM-53	Phenanthrene	UG/L		10 .	U.		NA
WM-53	Phenol	UG/L		10	U		NA
WM-53	Ругепе	UG/L		10	U	<u> </u>	NA

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
ATMW-4D	4,4'-DDD	ug/L			U		0.1
ATMW-4D	4,4'-DDE	ug/L			U		0.1
ATMW-4D	4,4'-DDT	ug/L			U_		0.1
ATMW-4D	alpha-BHC	ug/L		•	U		0.051
ATMŴ-4D	alpha-Chlordane	ug/L			U		0.051
	Aroclor-1016	ug/L			U		1
ATMW-4D	Aroclor-1221	ug/L			U		. 2
	Aroclor-1232	ug/L			U		1 1
ATMW-4D	Aroclor-1242	ug/L		·	U		1
	Aroclor-1248	ug/L			U		1
	Aroclor-1254	ug/L			U		1
	Aroclor-1260	ug/L			Ü		1
ATMW-4D		ug/L			U		0.051
ATMW-4D		ug/L			Ū		0.051
ATMW-4D		ug/L		=	Ū		0.1
	Endosulfan I	ug/L			U.		0.051
	Endosulfan II	ug/L			U		0.1
	Endosulfan sulfate	ug/L			Ū		0.1
ATMW-4D		ug/L			U		0.1
	Endrin aldehyde	ug/L			Ū		0.1
	Endrin ketone	ug/L		•	U		0.1
	gamma-BHC	ug/L			Ü		0.051
	gamma-Chlordane	ug/L			U		0.051
	Heptachlor	ug/L			Ū		0.051
	Heptachlor epoxide	ug/L			U		0.051
	Methoxychlor	ug/L			U		0.51
	Toxaphene	ug/L	1 :		U	:	5.1
M4S	4,4'-DDD	ug/L			U		0.1
M4S	4,4'-DDE	ug/L			U		0.1
M4S	4,4'-DDT	ug/L	1	•	U		0.1
M4S	Aldrin	ug/L			U	<b>†</b>	0.052
M4S	alpha-BHC	ug/L		0.0083	JP	JP	0.005
M4S	alpha-Chlordane	ug/L		0.0005	U	<u> </u>	0.052
M4S	Aroclor-1016	ug/L			U	<del> </del>	1
M4S	Aroclor-1221	ug/L			U		2.1
M4S	Aroclor-1232	ug/L			U		1
M4S	Aroclor-1242	ug/L	<del> </del>		U		1
M4S	Aroclor-1248	ug/L ug/L	<del>                                     </del>		U	<del> </del>	1
M4S	Aroclor-1254	ug/L ug/L	<del> </del>		U U	<del>                                     </del>	1
M4S	Aroclor-1254 Aroclor-1260	ug/L ug/L		<del> </del>	U	<del>                                     </del>	1 1
M4S	beta-BHC	ug/L ug/L	<del>                                     </del>	0.016	JBP	ЛРВ	·
M4S	delta-BHC		<del> </del>	0.0012	JP	JPB	0.005
	<del></del>	ug/L	<del>                                     </del>	0.0012		JP	0.005
M4S	Dieldrin Endosylfon I	ug/L	<del> </del>		U_	<del>                                     </del>	0.1
M4S	Endosulfan I	ug/L	<del> </del>		U	<del> </del>	0.052
M4S	Endosulfan II	ug/L	<del>  </del>		U		0.1
M4S	Endosulfan sulfate	ug/L			U	l	0.1

BOLD = Exceedance

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
M4S	Endrin	ug/L			U		0.1
M4S	Endrin aldehyde	ug/L			U		0.1
M4S	Endrin ketone	ug/L			U _		0.1
M4S	gamma-BHC	ug/L	-	0.011	J	J	0.005
M4S	gamma-Chlordane	ug/L			U		0.052
M4S	Heptachlor	ug/L			U.		0.052
M4S	Heptachlor epoxide	ug/L			U		0.052
M4S	Methoxychlor	ug/L			U.		0.52
M4S	Toxaphene	ug/L			U		5.2
MW-06	4,4'-DDD	ug/L	0.10		U·		0.1
MW-06	4,4'-DDE	ug/L	0.10	0.0012	JP	JP	0.01
MW-06	4,4'-DDT	ug/L	0.10	0.0081	J		0.01
MW-06	Aldrin	ug/L	0.05		U		0.05
MW-06	alpha-BHC	ug/L	0.05	0.0095	JР	JP	0.005
MW-06	alpha-Chlordane	ug/L	0.05	0.0068	JP	JP	0.005
MW-06	Aroclor-1016	ug/L	1.0		U		1
MW-06	Aroclor-1221	ug/L	2.0		U		2
MW-06	Aroclor-1232	ug/L	1.0		U_		11
MW-06	Aroclor-1242	ug/L	1.0		U		1
MW-06	Aroclor-1248	ug/L	1.0		U		11
MW-06	Aroclor-1254	ug/L	1.0		U	·	11
MW-06	Aroclor-1260	ug/L	1.0		U_		· 1
MW-06	beta-BHC	ug/L	0.05	0.36	BP	P	0.005
MW-06	delta-BHC	ug/L	0.05	0.004	JP	JP	0.005
MW-06	Dieldrin	ug/L	0.10	0.0069	JP	JP	0.01
MW-06	Endosulfan I	ug/L	0.05		U	<u> </u>	0.05
MW-06	Endosulfan II	ug/L	0.10		U		0.1
MW-06	Endosulfan sulfate	ug/L	0.10		U		0.1
MW-06	Endrin	ug/L	0.10	0.021	JP_	JP	0.01
MW-06	Endrin aldehyde	ug/L	0.10		U	ļ	0.1
MW-06	Endrin ketone	ug/L	0.10		U	<u> </u>	0.1
MW-06	gamma-BHC	ug/L	0.05	0.0066	JP_	JP	0.005
MW-06	gamma-Chlordane	ug/L	0.05		U	ļ	0.05
MW-06	Heptachlor	ug/L	0.05	0.0043	JP	JP	0.005
MW-06	Heptachlor epoxide	ug/L	0.05		U		0.05
MW-06	Methoxychlor	ug/L	0.50		U	ļ	0.5
MW-06	Toxaphene	ug/L	5.0		U		5
MW-08	4,4'-DDD	ug/L	0.10		U	<u> </u>	0.095
MW-08	4,4'-DDE	ug/L	0.10		U		0.095
MW-08	4,4'-DDT	ug/L	0.10		U	ļ	0.095
MW-08	Aldrin	ug/L	0.05		U	<u> </u>	0.048
MW-08	alpha-BHC	ug/L	0.05		U		0.048
MW-08	alpha-Chlordane	ug/L	0.05		U		0.048
MW-08	Aroclor-1016	ug/L	1.0		U		0.95
MW-08	Aroclor-1221	ug/L	2.0		U		1.9
MW-08	Aroclor-1232	ug/L	1.0		U		0.95

**BOLD**: = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-08	Aroclor-1242	ug/L	1.0		U		0.95
MW-08	Aroclor-1248	ug/L	1.0		U		0.95
MW-08	Aroclor-1254	ug/L	1.0	· .	U		0.95
MW-08	Aroclor-1260	ug/L	1.0		U		0.95
MW-08	beta-BHC	ug/L	0.05		U		0.048
MW-08	delta-BHC	ug/L	0.05		U		0.048
MW-08	Dieldrin	ug/L	0.10	•	U		0.095
MW-08	Endosultan I	ug/L	0.05	·	.U		0.048
MW-08	Endosulfan II	ug/L	0.10		U	•-	0.095
MW-08	Endosulfan sulfate	ug/L	0.10		U		0.095
MW-08	Endrin	ug/L	. 0.10		U		0.095
MW-08	Endrin aldehyde	ug/L	0.10	<u> </u>	U		0.095
MW-08	Endrin ketone	ug/L	0.10		U		0.095
MW-08	gamma-BHC	ug/L	0.05		U		0.048
MW-08	gamma-Chlordane	ug/L	0.05		U		0.048
MW-08	Heptachlor	ug/L	0.05		U		0.048
MW-08	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-08	Methoxychlor	ug/L	0.50		U		0.48
MW-08	Toxaphene	ug/L	5.0		U		4.8
MW-09R	4,4'-DDD	ug/L	0.10		U		0.05
MW-09R	4,4'-DDD	ug/L	0.10		U		0.1
MW-09R	4,4'-DDE	ug/L	0.10	•	U		0.05
MW-09R	4,4'-DDE	ug/L	0.10		U		0.1
MW-09R	4,4'-DDT	ug/L	0.10		U		0.05
MW-09R	4,4'-DDT	ug/L	0.10		U		0.1
MW-09R		ug/L	0.05		U		0.05
MW-09R	Aldrin	ug/L	0.05	:	U		0.05
MW-09R	alpha-BHC	ug/L	0.05		U		0.05
MW-09R	alpha-BHC	ug/L	0.05		U		0.05
MW-09R	alpha-Chlordane	ug/L	0.05	0.01	JP	JP	0.005
	alpha-Chlordane	ug/L	0.05		U		0.05
MW-09R	Aroclor-1016	ug/L	1.0		U	<u> </u>	1
	Aroclor-1016	ug/L	1.0		U		1
MW-09R	Aroclor-1221	ug/L	2.0		U		1
	Aroclor-1221	ug/L	2.0		U		2
MW-09R	Aroclor-1232	ug/L	1.0		U		1
	Aroclor-1232	ug/L	1.0		U		1
MW-09R	Aroclor-1242	ug/L	1.0		U		1
MW-09R	Aroclor-1242	ug/L	1.0		U		1
MW-09R	Aroclor-1248	ug/L	1.0		U		1
MW-09R	Aroclor-1248	ug/L	1.0		U		1
	Aroclor-1254	ug/L	1.0		U		Î
	Aroclor-1254	ug/L	1.0		U		i
	Aroclor-1260	ug/L	1.0		U		Î
	Aroclor-1260	ug/L	1.0		U		1 1
	beta-BHC	ug/L	0.05		U		0.05

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**BOLD**: = Exceedance

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
	beta-BHC	ug/L	0.05		U		0.05
MW-09R	delta-BHC	ug/L	0.05	0.0053	JP	JР	0.005
MW-09R	delta-BHC	ug/L	0.05		U		0.05
MW-09R	Dieldrin	ug/L	0.10		U		0.1
MW-09R	Dieldrin	ug/L	0.10	3	. U		0.05
	Endosulfan I	ug/L	0.05		U		0.05
MW-09R	Endosulfan I .	ug/L	0.05		U		0.05
MW-09R	Endosulfan II	ug/L	. 0.10	1	U:		0.1
MW-09R	Endosulfan II	ug/L	0.10	11	·U		0.05
MW-09R	Endosulfan sulfate	ug/L	- 0.10		U		0.05
MW-09R	Endosulfan sulfate	ug/L	0.10		U		0.1
MW-09R	Endrin	ug/L	0.10		U		0.05
MW-09R	Endrin	ug/L	0.10		U		0.1
MW-09R	Endrin aldehyde	ug/L	0.10		U		0.05
MW-09R	Endrin aldehyde	ug/L	0.10		U		0.1
MW-09R	Endrin ketone	ug/L	0.10		U		0.1
MW-09R	Endrin ketone	ug/L	0.10		U		0.05
MW-09R	gamma-BHC	ug/L	0.05		U		0.05
MW-09R	gamma-BHC	ug/L	0.05		U		0.05
MW-09R	gamma-Chlordane	ug/L	0.05		U		0.05
MW-09R	gamma-Chlordane	ug/L	0.05		.U		0.05
MW-09R	Heptachlor	ug/L	0.05		_ ·U		0.05
MW-09R	Heptachlor	ug/L	0.05		U		0.05
MW-09R	Heptachlor epoxide	ug/L	0.05		U		0.05
MW-09R	Heptachlor epoxide	ug/L	0.05		U		0.05
MW-09R	Methoxychlor	ug/L	0.50		U	J	0.5
MW-09R	Methoxychlor	ug/L	0.50		U		0.1
MW-09R	Toxaphene	ug/L	5.0		U		2
MW-09R	Toxaphene	ug/L	5.0		U	<u> </u>	5
MW-10C	4,4'-DDD	ug/L	0.10		U		0.098
MW-10C	4,4'-DDE	ug/L	0.10		U		0.098
MW-10C	4,4'-DDT	ug/L	0.10		U		0.098
MW-10C	Aldrin	ug/L	0.05		U		0.049
MW-10C	alpha-BHC	ug/L	0.05		U		0.049
	alpha-Chlordane	ug/L	0.05		U		0.049
	Aroclor-1016	ug/L	1.0		U		0.98
MW-10C	Aroclor-1221	ug/L	2.0		U		2
MW-10C	Aroclor-1232	ug/L	1.0		U		0.98
MW-10C	Aroclor-1242	ug/L	1.0		U		0.98
	Aroclor-1248	ug/L	1.0		U		0.98
	Aroclor-1254	ug/L	1.0		U		0.98
	Aroclor-1260	ug/L	1.0		U		0.98
<del></del>	beta-BHC	ug/L	0.05	0.017	J	J	0.005
	delta-BHC	ug/L	0.05	0.0023	JP	JP	0.005
MW-10C		ug/L	0.10		U		0.098
	Endosulfan I	ug/L	0.05		U		0.049

BOLD! = Exceedance

#### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-10C	Endosulfan II	ug/L	0.10		U		0.098
MW-10C	Endosulfan sulfate	ug/L	0.10		U		0.098
MW-10C	Endrin	ug/L	0.10		U		0.098
MW-10C	Endrin aldehyde	ug/L	0.10		<u>U</u>		0.098
MW-10C	Endrin ketone	ug/L	0.10		U		0.098
MW-10C	gamma-BHC	ug/L	0.05	0.0012	JP	JP	0.005
MW-10C	gamma-Chlordane	ug/L	0.05		U		0.049
MW-10C	Heptachlor	ug/L	0.05		U		0.049
·MW-10C	Heptachlor epoxide	ug/L	0.05		U.		0.049
MW-10C	Methoxychlor	ug/L	0.50		U .	Ì	0.49
MW-10C	Toxaphene	ug/L	5.0		U		4.9
	4,4'-DDD	ug/L	0.10		U	UJ	0.1
MW-13	4,4'-DDE	ug/L	0.10		U	UJ	0.1
	4,4'-DDT	ug/L	0.10		U	UJ	0.1
	Aldrin	ug/L	0.05		U	UJ	0.05
	alpha-BHC	ug/L	0.05		U	UJ	0.05
	alpha-Chlordane	ug/L	0.05		U	UJ	0.05
MW-13	Aroclor-1016	ug/L	1.0		U	UJ	1
MW-13	Aroclor-1221	ug/L	2.0		U	UJ	2
MW-13	Aroclor-1232	ug/L	1.0	144	U	UJ	1
MW-13	Aroclor-1242	ug/L	1.0		U	UJ	1
MW-13	Aroclor-1248	ug/L	1.0		U_	UJ	1
MW-13	Aroclor-1254	ug/L	1.0		U	UJ	1
MW-13	Aroclor-1260	ug/L	1.0		U	UJ	1
MW-13	beta-BHC	ug/L	0.05	0.0055	JBP	JP	0.005
MW-13	delta-BHC	ug/L	0.05		U	UJ	0.05
MW-13	Dieldrin	ug/L	0.10		U	UJ	0.1
MW-13	Endosulfan I	ug/L	0.05	•	U	UJ	0.05
MW-13	Endosulfan II	ug/L	0.10		U	UJ	0.1
MW-13	Endosulfan sulfate	ug/L	0.10	•	U	UJ	0.1
MW-13	Endrin	ug/L	0.10		U	UJ	0.1
MW-13	Endrin aldehyde	ug/L	0.10		U_	UJ	0.1
MW-13	Endrin ketone	ug/L	0.10	0.0042	JBP	JР	0.01
MW-13	gamma-BHC	ug/L	0.05		U	UJ	0.05
MW-13	gamma-Chlordane	ug/L	0.05		U	UJ	0.05
MW-13	Heptachlor	ug/L	0.05		U	UJ	0.05
	Heptachlor epoxide	ug/L	0.05		U	UJ	0.05
MW-13	Methoxychlor	ug/L	0.50		U	UJ	0.5
MW-13	Toxaphene	ug/L	5.0		Ü	UJ	5
MW-14	4,4'-DDD	ug/L	0.10		U		0.098
MW-14	4,4'-DDE	ug/L	0.10		U	T	0.098
MW-14	4,4'-DDT	ug/L	0.10		Ü		0.098
MW-14	Aldrin	ug/L	0.05	·	U		0.049
MW-14	alpha-BHC	ug/L	0.05		Ū		0.049
MW-14	alpha-Chlordane	ug/L	0.05		Ü	1	0.049
MW-14	Aroclor-1016	ug/L	1.0		Ū	<del>                                     </del>	0.98

BOED = Exceedance

NA = Not Applicable

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### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-14	Aroclor-1221	ug/L	2.0		U		2
MW-14	Aroclor-1232	ug/L	1.0		U		0.98
MW-14	Aroclor-1242	ug/L	1.0		U		0.98
MW-14.	Aroclor-1248	ug/L	1.0		U		0.98
MW-14	Aroclor-1254	ug/L	1.0		U		0.98
MW-14	Aroclor-1260	ug/L	1.0		Ü		0.98
MW-14	beta-BHC	ug/L	0.05		U		0.049
MW-14	delta-BHC	ug/L	0.05	<del></del>	U		0.049
MW-14	Dieldrin	ug/L	0.10		U	,	0.098
MW-14	Endosulfan I	ug/L	0.05		U		0.049
MW-14	Endosulfan II	ug/L	0.10		U	T	0.098
MW-14	Endosulfan sulfate	ug/L	0.10	<del></del>	U		0.098
MW-14	Endrin	ug/L	0.10		U	· ·	0.098
MW-14	Endrin aldehyde	ug/L	0.10		U		0.098
MW-14	Endrin ketone	ug/L	0.10	<u></u>	Ū		0.098
MW-14	gamma-BHC	ug/L	0.05		U		0.049
MW-14	gamma-Chlordane	ug/L	0.05		U		0.049
MW-14	Heptachlor	ug/L	0.05	0.0022	JP	JP	0.005
MW-14	Heptachlor epoxide	ug/L	0.05		U		0.049
MW-14	Methoxychlor	ug/L	0.50		U		0.49
MW-14	Toxaphene	ug/L	5.0		U		4.9
MW-15	4,4'-DDD	ug/L	0.10	1.	U		0.1
MW-15	4,4'-DDE	ug/L	0.10		U		0.1
MW-15	4,4'-DDT	ug/L	0.10		U		0.1
MW-15	Aldrin	ug/L	0.05	0.0021	JP	JP	0.005
MW-15	alpha-BHC	ug/L	0.05		U		0.051
MW-15	alpha-Chlordane	ug/L	0.05	<del> </del>	U		0.051
MW-15	Aroclor-1016	ug/L	1.0	· · · · · · · · · · · · · · · · · · ·	U		1
MW-15	Aroclor-1221	ug/L	2.0	<u> </u>	U		2
MW-15	Aroclor-1232	ug/L	1.0		U		1
MW-15	Aroclor-1242	ug/L	1.0		U		Î
MW-15	Aroclor-1248	ug/L	1.0		U		1
MW-15	Aroclor-1254	ug/L	1.0		U		i
MW-15	Aroclor-1260	ug/L	1.0		Ū		1
MW-15	beta-BHC	ug/L	0.05	0.0081	JBP	JPB	0.005
MW-15	delta-BHC	ug/L	0.05	0.0016	JP	JP	0.005
MW-15	Dieldrin	ug/L	0.10	0.0010	U	<del></del>	0.1
MW-15	Endosulfan I	ug/L	0.05	<del></del>	Ū	<b> </b>	0.051
MW-15	Endosulfan II	ug/L	0.10		Ū	<del>                                     </del>	0.031
MW-15	Endosulfan sulfate	ug/L	0.10		U		0.1
MW-15	Endrin	ug/L ug/L	0.10		U	<del> </del>	0.1
MW-15	Endrin aldehyde	ug/L ug/L	0.10		U		0.1
MW-15	Endrin aldenyde Endrin ketone	ug/L ug/L	0.10		U	<del> </del>	0.1
MW-15	gamma-BHC	ug/L ug/L	0.10	0.0033	JP	JP	0.005
MW-15	gamma-Chlordane	ug/L ug/L	0.05	0.0033	U	<u></u> -	
MW-15	Heptachlor	ug/L ug/L	0.05	0.0074	JP	JP	0.051

BOLD = Exceedance

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	_
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-15	Heptachlor epoxide	ug/L	0.05		U	<u></u>	0.051
MW-15	Methoxychlor	ug/L	0.50		U		0.51
MW-15	Toxaphene	ug/L	5.0		U		5.1
MW-18	4,4'-DDD	ug/L	0.10		U		0.094
MW-18.	4,4'-DDE	ug/L_	0.10		U		0.094
MW-18	4,4'-DDT	ug/L.	0.10		U		0.094
MW-18	Aldrin	ug/L	0.05		U		0.047
MW-18	alpha-BHC	ug/L	0.05		U		0.047
MW-18	alpha-Chlordane	ug/L	0.05		U		0.047
MW-18	Aroclor-1016	ug/L	1.0		U		0.94
MW-18	Aroclor-1221	ug/L_	2.0		U_		1.9
MW-18	Aroclor-1232	ug/L	1.0		U		0.94
MW-18	Aroclor-1242	ug/L	1.0		U		0.94
MW-18	Aroclor-1248	ug/L	1.0		U		0.94
MW-18	Aroclor-1254	ug/L	1.0		U		0.94
MW-18	Aroclor-1260	ug/L	1.0		U		0.94
MW-18	beta-BHC	ug/L	0.05		U		0.047
MW-18	delta-BHC	ug/L	0.05		U		0.047
MW-18	Dieldrin	ug/L	0.10		U		0.094
MW-18	Endosulfan I	ug/L	0.05		U		0.047
MW-18	Endosulfan II	ug/L	0.10		U		0.094
MW-18	Endosulfan sulfate	ug/L	0.10		U		0.094
MW-18	Endrin	ug/L	0.10		U		0.094
MW-18	Endrin aldehyde	ug/L	0.10	-	U		0.094
MW-18	Endrin ketone	ug/L	0.10		U		0.094
MW-18	gamma-BHC	ug/L	0.05		U		0.047
MW-18	gamma-Chlordane	ug/L_	0.05		U		0.047
MW-18	Heptachlor	ug/L	0.05		U		0.047
MW-18	Heptachlor epoxide	ug/L	0.05		U		0.047
MW-18	Methoxychlor	ug/L	0.50	0.01	JP ·	JP	0.05
MW-18	Toxaphene	ug/L	5.0		U		4.7
MW-19	4,4'-DDD	ug/L	0.10		U		0.1
MW-19	4,4'-DDE	ug/L	0.10		Ü		0.1
MW-19	4,4'-DDT	ug/L	0.10		Ü		0.1
MW-19	Aldrin	ug/L	0.05	<del></del> _	U	<u> </u>	0.05
MW-19	alpha-BHC	ug/L	0.05	0.0038	JP	JP	0.005
MW-19	alpha-Chlordane	ug/L	0.05	0.0053	JР	JP	0.005
MW-19	Aroclor-1016	ug/L	1.0		Ü		1
MW-19	Aroclor-1221	ug/L	2.0	······	Ü		2
MW-19	Aroclor-1232	ug/L	1.0	<del></del>	Ū	<u> </u>	1
MW-19	Aroclor-1242	ug/L	1.0		Ū		1 1
MW-19	Aroclor-1248	ug/L	1.0		Ü	<del> </del>	1 1
MW-19	Aroclor-1254	ug/L	1.0		U	<del>                                     </del>	1 1
MW-19	Aroclor-1260	ug/L	1.0		U		1 1
MW-19	beta-BHC	ug/L ug/L	0.05	0.022	ЈВР	JP	0.005
MW-19	delta-BHC	ug/L	0.05	0.0019	JP	JP	0.005

BOLD = Exceedance

NA = Not Applicable

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## American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
_			during Baseline	Result	LQ	DQ	Detect Limit
MW-19	Dieldrin	ug/L	0.10		U		0.1
MW-19	Endosulfan I	ug/L	0.05		U		0.05
MW-19	Endosulfan II	ug/L	0.10	0.0019	JP	JP	0.01
MW-19	Endosulfan sulfate	ug/L	0.10		U		0.1
MW-19	Endrin	ug/L	0.10		U		0.1
MW-19	Endrin aldehyde	ug/L	0.10		U		0.1
MW-19	Endrin ketone	ug/L	0.10		U		0.1
MW-19	gamma-BHC	ug/L	0.05	·	U		0.05
MW-19	gamma-Chlordane	ug/L	0.05		U		0.05
MW-19	Heptachlor	ug/L	0.05	0.0044	JP	JР	0.005
MW-19	Heptachlor epoxide	ug/L	0.05		U		0.05
MW-19	Methoxychlor	ug/L	0.50		U		0.5
MW-19	Toxaphene	ug/L	5.0		Ū	1	5
MW-23	4,4'-DDD	ug/L	0.10		Ū		0.095
MW-23	4,4'-DDE	ug/L	0.10		Ü		0.095
MW-23	4,4'-DDT	ug/L	0.10		Ü	<u> </u>	0.095
MW-23	Aldrin	ug/L	0.05		Ū		0.048
MW-23	alpha-BHC	ug/L	0.05		Ü	<u> </u>	0.048
MW-23	alpha-Chlordane	ug/L	0.05		Ū		0.048
MW-23	Aroclor-1016	ug/L	1.0		Ū		0.95
MW-23	Aroclor-1221	ug/L	2.0	<del></del>	U		1.9
MW-23	Aroclor-1232	ug/L	1.0		Ū		0.95
MW-23	Aroclor-1242	ug/L	1.0		U		0.95
MW-23	Aroclor-1248	ug/L	1.0		Ū		0.95
MW-23	Aroclor-1254	ug/L	1.0		U		0.95
MW-23	Aroclor-1260	ug/L	1.0		U		0.95
MW-23	beta-BHC	ug/L	0.05		U		0.048
MW-23	delta-BHC	ug/L	0.05		U	İ	0.048
MW-23	Dieldrin	ug/L	0.10		U		0.095
MW-23	Endosulfan I	ug/L	0.05		Ū		0.048
MW-23	Endosulfan II	ug/L	0.10		U	1	0.095
MW-23	Endosulfan sulfate	ug/L	0.10		U		0.095
MW-23	Endrin	ug/L	0.10	<del></del>	Ü		0.095
MW-23	Endrin aldehyde	ug/L	0.10		Ü	<u> </u>	0.095
MW-23	Endrin ketone	ug/L	0.10		Ū		0.095
MW-23	gamma-BHC	ug/L	0.05		Ū	†	0.048
MW-23	gamma-Chlordane	ug/L	0.05		T U	<u> </u>	0.048
MW-23	Heptachlor	ug/L	0.05	0.0022	JP	JP	0.005
MW-23	Heptachlor epoxide	ug/L	0.05	0.0022	U	<del>                                     </del>	0.003
MW-23	Methoxychlor	ug/L	0.50		U		0.48
MW-23	Toxaphene	ug/L ug/L	5.0		$\frac{U}{U}$	<del>                                     </del>	4.8
MW-24	4,4'-DDD	ug/L	0.10		U	<del>                                     </del>	0.095
MW-24	4,4'-DDE	ug/L ug/L	0.10		U	<del>                                     </del>	0.093
MW-24	4,4'-DDT	ug/L ug/L	0.10	<del></del>	U	+	
MW-24 MW-24	Aldrin	ug/L ug/L	0.10		<del>U</del>	<del>                                     </del>	0.095
MW-24 MW-24	alpha-BHC				U	+	0.048
IVI VV -Z4	Тагріга-БПС	ug/L	0.05		<u>, U</u>	<u> </u>	0.048

BOLD® = Exceedance

NA = Not Applicable

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Re <u>sult</u>	LQ	DQ	Detect Limit
MW-24	alpha-Chlordane	ug/L	0.05		U		0.048
MW-24	Aroclor-1016	ug/L	1.0		U		0.95
MW-24_	Aroclor-1221	ug/L	2.0		U		1.9
MW-24	Aroclor-1232	ug/L	1.0		U		0.95
MW-24	Aroclor-1242	ug/L	1.0		U		0.95
MW-24	Aroclor-1248	ug/L	1.0		U		0.95
MW-24	Aroclor-1254	ug/L	1.0		U		0.95
MW-24	Aroclor-1260	ug/L	1.0		Ū		0.95
MW-24	beta-BHC	ug/L	0.05	0.0096	JBP	JP	0.005
MW-24	delta-BHC	ug/L	0.05	0.003	JP	JP_	0.005
MW-24	Dieldrin	ug/L	0.10		U		0.095
MW-24	Endosulfan I	ug/L	0.05		U		0.048
MW-24	Endosulfan II	ug/L	0.10		U		0.095
MW-24	Endosulfan sulfate	ug/L	0.10		U		0.095
MW-24	Endrin	ug/L	0.10		U		0.095
MW-24	Endrin aldehyde	ug/L	0.10		U		0.095
MW-24	Endrin ketone	ug/L	0.10		U		0.095
MW-24	gamma-BHC	ug/L	0.05		U		0.048
MW-24	gamma-Chlordane	ug/L	0.05		U		0.048
MW-24	Heptachlor	ug/L	0.05		U		0.048
MW-24	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-24	Methoxychlor	ug/L	0.50		U		0.48_
MW-24	Toxaphene	ug/L	5.0		U		4.8
MW-28	4,4'-DDD	ug/L	0.10		U		0.096
MW-28	4,4'-DDE	ug/L	0.10		U		0.096
MW-28	4,4'-DDT	ug/L	0.10		U		0.096
MW-28	Aldrin	ug/L	0.05		U		0.048
MW-28	alpha-BHC	ug/L	0.05		U		0.048
MW-28	alpha-Chlordane	ug/L	0.05	0.0025	JP	JР	0.005
MW-28	Aroclor-1016	ug/L	1.0		U ·		0.96
MW-28	Aroclor-1221	ug/L	2.0		U		1.9
MW-28	Aroclor-1232	ug/L	1.0		U		0.96
MW-28	Aroclor-1242	ug/L	1.0		U		0.96
MW-28	Aroclor-1248	ug/L	1.0		U		0.96
MW-28	Aroclor-1254	ug/L	1.0		U		0.96
MW-28	Aroclor-1260	ug/L	1.0		U		0.96
MW-28	beta-BHC	ug/L	0.05		U		0.048
MW-28	delta-BHC	ug/L	0.05	<del></del>	U		0.048
MW-28	Dieldrin	ug/L	0.10		U		0.096
MW-28	Endosulfan I	ug/L	0.05		Ū	·	0.048
MW-28	Endosulfan II	ug/L	0.10		U		0.096
MW-28	Endosulfan sulfate	ug/L	0.10	<del></del>	Ū		0.096
MW-28	Endrin	ug/L	0.10		Ū		0.096
MW-28	Endrin aldehyde	ug/L	0.10		U	<del> </del>	0.096
MW-28	Endrin ketone	ug/L	0.10	_	T U	<del> </del>	0.096
MW-28	gamma-BHC	ug/L	0.05		U	<del> </del>	0.048

BOLD: = Exceedance

NA = Not Applicable

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### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
_			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-28	gamma-Chlordane	ug/L	0.05		U		0.048
MW-28	Heptachlor	ug/L	0.05	_	U		0.048
MW-28	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-28	Methoxychlor	ug/L	0.50		Ü		0.48
MW-28	Toxaphene	ug/L	5.0	:	U		4.8
MW-29	4,4'-DDD	ug/L	0.10		U		0.098
MW-29	4,4'-DDE	ug/L	0.10		U		0.098
MW-29	4,4'-DDT	ug/L	0.10		U		0.098
MW-29	Aldrin	ug/L	0.05	<u>-</u>	U		0.049
MW-29	alpha-BHC	ug/L	0.05		U		0.049
MW-29	alpha-Chlordane	ug/L	0.05		U		0.049
MW-29	Aroclor-1016	ug/L	1.0		U		0.98
MW-29	Aroclor-1221	ug/L	2.0		U		2
MW-29	Aroclor-1232	ug/L	1.0	<del>-</del>	Ü		0.98
MW-29	Aroclor-1242	ug/L	1.0		U	T	0.98
MW-29	Aroclor-1248	ug/L	1.0		U		0.98
MW-29	Aroclor-1254	ug/L	1.0		U	<u> </u>	0.98
MW-29	Aroclor-1260	ug/L	1.0		U		0.98
MW-29	beta-BHC	ug/L	0.05		U	·	0.049
MW-29	delta-BHC	ug/L	0.05	0.0045	JP	JP	0.005
MW-29	Dieldrin	ug/L	0:10		U		0.098
MW-29	Endosulfan I	ug/L	0.05		U		0.049
MW-29	Endosulfan II	ug/L	0.10		U		0.098
MW-29	Endosulfan sulfate	ug/L	0.10		U		0.098
MW-29	Endrin	ug/L	0.10		U		0.098
MW-29	Endrin aldehyde	ug/L	0.10		U		0.098
MW-29	Endrin ketone	ug/L	0.10		U ··		0.098
MW-29	gamma-BHC	ug/L	0.05		U		0.049
MW-29	gamma-Chlordane	ug/L	0.05	0.0018	JP	JP	0.005.
MW-29	Heptachlor	ug/L	0.05		U		0.049
MW-29	Heptachlor epoxide	ug/L	0.05		U		0.049
MW-29	Methoxychlor	ug/L	0.50		U		0.49
MW-29	Toxaphene	ug/L	5.0		U		4.9
MW-30	4,4'-DDD	ug/L	0.10	<del>-</del>	Ü	JP	0.094
MW-30	4,4'-DDE	ug/L	0.10	_	U		0.094
MW-30	4,4'-DDT	ug/L	0.10		Ü		0.094
MW-30	Aldrin	ug/L	0.05		U		0.047
MW-30	alpha-BHC	ug/L	0.05		U		0.047
MW-30	alpha-Chlordane	ug/L	0.05		Ŭ		0.047
MW-30	Aroclor-1016	ug/L	1.0		Ū		0.94
MW-30	Aroclor-1221	ug/L	2.0		U		1.9
MW-30	Aroclor-1232	ug/L	1.0		Ü		0.94
MW-30	Aroclor-1242	ug/L	1.0		U	<del></del>	0.94
MW-30	Aroclor-1248	ug/L	1.0		U	<del>                                     </del>	0.94
MW-30	Aroclor-1254	ug/L	1.0		U	<del>                                     </del>	0.94
MW-30	Aroclor-1260	ug/L ug/L	1.0	<u> </u>	<del>  U</del>		0.94
141 44 -20	[ALUCIUI-1200	ug/L	1.0		1 0		<u>U.94</u>

**BOLD** = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
		<u> </u>	during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-30	beta-BHC	ug/L	0.05		U	_	0.047
MW-30	delta-BHC	ug/L	0.05		U		0.047
MW-30	Dieldrin	ug/L	0.10		U	_	0.094
MW-30	Endosulfan I	ug/L	0.05		U	-	0.047
MW-30	Endosulfan II	ug/L	0.10	:	U		0.094
MW-30	Endosulfan sulfate	ug/L	0.10		U		0.094
MW-30	Endrin	ug/L	0.10		U		0.094
MW-30	Endrin aldehyde	ug/L	0.10		U		0.094
MW-30	Endrin ketone	ug/L	0.10		U		0.094
MW-30	gamma-BHC	ug/L	0.05		U		0.047
MW-30	gamma-Chlordane	ug/L	0.05		U		0.047
MW-30	Heptachlor	ug/L	0.05		U		0.047
MW-30	Heptachlor epoxide	ug/L	0.05		· U		0.047
MW-30	Methoxychlor	ug/L	0.50	0.0066	JBP		0.05
MW-30	Toxaphene	ug/L	5.0		U		4.7
MW-31	4,4'-DDD	ug/L	0.10		U		0.095
MW-31	4,4'-DDE	ug/L	0.10		U		0.095
MW-31	4,4'-DDT	ug/L	0.10		U		0.095
MW-31	Aldrin	ug/L	0.05		U		0.048
MW-31	alpha-BHC	ug/L	0.05		U		0.048
MW-31	alpha-Chlordane	ug/L	0.05		U		0.048
MW-31	Aroclor-1016	ug/L	1.0		U		0.95
MW-31	Aroclor-1221	ug/L	2.0		U		1.9
MW-31	Aroclor-1232	ug/L	1.0		Ŭ		0.95
MW-31	Aroclor-1242	ug/L	1.0		U		0.95
MW-31	Aroclor-1248	ug/L	1.0		U		0.95
MW-31	Aroclor-1254	ug/L	1.0		U		0.95
MW-31	Aroclor-1260	ug/L	1.0		U		0.95
MW-31	beta-BHC	ug/L	0.05	0.014	JP	JP	0.005
MW-31	delta-BHC	ug/L	0.05	0.0013	JBP	_ JP	0.005
MW-31	Dieldrin	ug/L	0.10		U		0.095
MW-31	Endosulfan I	ug/L	0.05		U		0.048
MW-31	Endosulfan II	ug/L	0.10		U		0.095
MW-31	Endosulfan sulfate	ug/L	0.10		U		0.095
MW-31	Endrin	ug/L	0.10		U		0.095
MW-31	Endrin aldehyde	ug/L	0.10		U		0.095
MW-31	Endrin ketone	ug/L	0.10		U		0.095
MW-31	gamma-BHC	ug/L	0.05		U		0.048
MW-31	gamma-Chlordane	ug/L	0.05		U	I	0.048
MW-31	Heptachlor	ug/L	0.05		U	[	0.048
MW-31	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-31	Methoxychlor	ug/L	0.50		U		0.48
MW-31	Toxaphene	ug/L	5.0		U		4.8
MW-32	4,4'-DDD	ug/L	0.10		U		0.097
MW-32	4,4'-DDE	ug/L	0.10		U		0.097
MW-32	4,4'-DDT	ug/L	0.10	<del>- · ·</del>	Ū		0.097

BOED = Exceedance
NA = Not Applicable

#### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-32	Aldrin	ug/L	0.05		U		0.048
MW-32	alpha-BHC	ug/L	0.05		U		0.048
MW-32	alpha-Chlordane	ug/L	0.05		U		0.048
MW-32	Aroclor-1016	ug/L	1.0		U		0.97
MW-32	Aroclor-1221	ug/L	2.0		U		1.9
MW-32	Aroclor-1232	ug/L	1.0		U		0.97
MW-32	Aroclor-1242	ug/L	1.0		U		0.97
MW-32	Aroclor-1248	ug/L	1.0		U		0.97
MW-32	Aroclor-1254	ug/L	1.0	<u>-</u> _	U		0.97
MW-32	Aroclor-1260	ug/L	1.0		U		0.97
MW-32	beta-BHC	ug/L	0.05		U		0.048
MW-32	delta-BHC	ug/L	0.05		U		0.048
MW-32	Dieldrin	ug/L	0.10		U		0.097
MW-32	Endosulfan I	ug/L	0.05		U		0.048
MW-32	Endosulfan II	ug/L	0.10		U		0.097
MW-32	Endosulfan sulfate	ug/L	0.10		U		0.097
MW-32	Endrin	ug/L	0.10		U		0.097
MW-32	Endrin aldehyde	ug/L	0.10		U		0.097
MW-32	Endrin ketone	ug/L	0.10		U		0.097
MW-32	gamma-BHC	ug/L	0.05		U		0.048
MW-32	gamma-Chlordane	ug/L	0.05	,	U		0.048
MW-32	Heptachlor	ug/L	0.05		U		0.048
MW-32	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-32	Methoxychlor	ug/L	0.50		U		0.48
MW-32	Toxaphene	ug/L	5.0		U	<u> </u>	4.8
MW-33	4,4'-DDD	ug/L_	0.10	0.0024	JP	JP	0.01
MW-33	4,4'-DDE	ug/L	0.10		U	:	0.095
MW-33	4,4'-DDT	ug/L	0.10		U		0.095
MW-33	Aldrin	ug/L	0.05		U		0.048
MW-33	alpha-BHC	ug/L	0.05		· U	<u> </u>	0.048
MW-33	alpha-Chlordane	ug/L	0.05	0.0014	JP	JP	0.005
MW-33	Aroclor-1016	ug/L	1.0		U		0.95
MW-33	Aroclor-1221	ug/L	2.0		U .		1.9
MW-33	Aroclor-1232	ug/L	1.0		U		0.95
MW-33	Aroclor-1242	ug/L	1.0		U		0.95
MW-33	Aroclor-1248	ug/L	1.0		U		0.95
MW-33	Aroclor-1254	ug/L	1.0		U		0.95
MW-33	Aroclor-1260	ug/L	1.0		U		0.95
MW-33	beta-BHC	ug/L	0.05	0.017	JBP	JPB	0.005
MW-33	delta-BHC	ug/L	0.05		U		0.048
MW-33	Dieldrin	ug/L	0.10		U		0.095
MW-33	Endosulfan I	ug/L	0.05		U		0.048
MW-33	Endosulfan II	ug/L	0.10		U		0.095
MW-33	Endosulfan sulfate	ug/L	0.10		U		0.095
MW-33	Endrin	ug/L	0.10		U		0.095
MW-33	Endrin aldehyde	ug/L	0.10		U		0.095

BOLD = Exceedance NA = Not Applicable

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
_			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
_MW-33	Endrin ketone	ug/L	0.10		U		0.095
MW-33	gamma-BHC	ug/L	0.05	0.0025	JР	JP	0,005
MW-33	gamma-Chlordane	ug/L	0.05		U		0.048
MW-33	Heptachlor	ug/L	0.05	0.007	JP	JP	_0.005
MW-33	Heptachlor epoxide	ug/L	0.05		U		0.048
: MW-33	Methoxychlor	ug/L	0.50	0.0036	JBP	JР	0.05
MW-33	Toxaphene	ug/L	5.0	, "	U.		4.8
MW-37	4,4'-DDD	ug/L	0.10		U.		_0.095
MW-37	4,4'-DDE	ug/L	0.10	-	U	]	0.095
MW-37	4,4'-DDT	ug/L	0.10		U		0.095
MW-37	Aldrin	ug/L	0.05		U		0.048
MW-37	alpha-BHC	ug/L	0.05		U		_0.048
MW-37	alpha-Chlordane	ug/L	0.05		U		0.048
MW-37	Aroclor-1016	ug/L	1.0	•	U	·	0.95
MW-37	Aroclor-1221	ug/L	2.0		U		1.9
MW-37	Aroclor-1232	ug/L	1.0		U		_0.95
MW-37	Aroclor-1242	ug/L	1.0		U		0.95
MW-37	Aroclor-1248	ug/L	1.0		U		0.95
MW-37	Aroclor-1254	ug/L	1.0		U		0.95
MW-37	Aroclor-1260	ug/L	1.0		U		0.95
MW-37	beta-BHC	ug/L	0.05	0.019	J	J	_0,005
MW-37	delta-BHC	ug/L	0.05		U		_0.048
MW-37	Dieldrin	ug/L	. 0.10		U		0.095
MW-37	Endosulfan I	ug/L	0.05		U	<u> </u>	0.048
<u>MW-37</u>	Endosulfan II	ug/L	0.10		U		0.095
_MW-37	Endosulfan sulfate	ug/L	0.10		U		0.095
MW-37	Endrin	ug/L	0.10		U		_0.095
_MW-37	Endrin aldehyde	ug/L	0.10		U		0.095
MW-37	Endrin ketone	ug/L	0.10		U		0.095
MW-37	gamma-BHC	ug/L	0.05		U		0.048
MW-37	gamma-Chlordane	ug/L	0.05		U		0.048
MW-37	Heptachlor	ug/L	0.05		U		0.048
MW-37	Heptachlor epoxide	ug/L	0.05		U	<u> </u>	0.048
MW-37	Methoxychlor	ug/L	0.50		U		0.48
MW-37	Toxaphene	ug/L	5.0		U		4.8
_MW-38	4,4'-DDD	ug/L	0.10		U		0.097
MW-38	4,4'-DDE	ug/L	0.10	0.0086	JP	JР	0.01
MW-38	4,4'-DDT	ug/L	0.10	0.068	JP	JP	0.01
MW-38	Aldrin	ug/L	0.05		U		0.048
MW-38	alpha-BHC	ug/L	0.05		U	<u> </u>	0.048
<u>MW-38</u>	alpha-Chlordane	ug/L	0.05		U		0.048
MW-38	Aroclor-1016	ug/L	1.0		U	<u> </u>	0.97
MW-38	Aroclor-1221	ug/L	2.0		U		1.9
MW-38	Aroclor-1232	ug/L	1.0		U		0.97
MW-38	Aroclor-1242	ug/L	1.0		U		0.97
MW-38	Aroclor-1248	ug/L	1.0		U		0.97

BOLD = Exceedance NA = Not Applicable

#### **American Chemical Services NPL Site** Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-38	Aroclor-1254	ug/L	1.0		U		0.97
MW-38	Aroclor-1260	ug/L	1.0		U		0.97
MW-38	beta-BHC	ug/L	0.05	•	U		0.048
MW-38	delta-BHC	ug/L	0.05	0.0056	JP	JP	0.005
MW-38	Dieldrin	ug/L	0.10	0.0074	JР	JP	0.01
MW-38	Endosulfan I	ug/L	0.05		U		0.048
MW-38	Endosulfan II	ug/L	0.10		U		0.097
MW-38	Endosulfan sulfate	ug/L	0.10	0.027	JP .	JP	0.01
MW-38	Endrin	ug/L	0.10	0.0068	JP	JP	0.01
MW-38	Endrin aldehyde	ug/L	0.10	-	U		0.097
MW-38	Endrin ketone	ug/L	0.10	0.0064	JBP	JP	0.01
MW-38	gamma-BHC	ug/L	0.05		U		0.048_
MW-38	gamma-Chlordane	ug/L	0.05	0.0083	J	J	0.005
MW-38	Heptachlor	ug/L	0.05	0.0083	JP	JP	0.005
MW-38	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-38	Methoxychlor	ug/L	0.50	0.11	JB	J	0.05
MW-38	Toxaphene	ug/L	5.0		U		_4.8
MW-39	4,4'-DDD	ug/L	0.10		U		0.092
MW-39	4,4'-DDE	ug/L	0.10		U		0.092
MW-39	4,4'-DDT	ug/L	0.10		U		0.092
MW-39	Aldrin	ug/L	0.05		U	Ĭ	0.046
MW-39	alpha-BHC	ug/L	0.05		U .		0.046
MW-39	alpha-Chlordane	ug/L	0.05		U		0.046
MW-39	Aroclor-1016	ug/L	1.0		U		0.92
MW-39	Aroclor-1221	ug/L	2.0		U		1.8
MW-39	Aroclor-1232	ug/L	1.0		U		0.92
MW-39	Aroclor-1242	ug/L	1.0		U		0.92
MW-39	Aroclor-1248	ug/L	1.0		U		0.92
MW-39	Aroclor-1254	ug/L	1.0		U		0.92
MW-39	Aroclor-1260	ug/L	1.0		U		0.92
MW-39	beta-BHC	ug/L	0.05	<u> </u>	U		0.046
MW-39	delta-BHC	ug/L	0.05		U		0.046
MW-39	Dieldrin	ug/L	0.10		U		0.092
MW-39	Endosulfan I	ug/L	0.05		U		0.046
MW-39	Endosulfan II	ug/L	0.10		U		0.092
MW-39	Endosulfan sulfate	ug/L	0.10		U		0.092
MW-39	Endrin	ug/L	0.10		U		0.092
MW-39	Endrin aldehyde	ug/L	0.10		U		0.092
MW-39	Endrin ketone	ug/L	0.10		U		0.092
MW-39	gamma-BHC	ug/L	0.05		U		0.046
MW-39	gamma-Chlordane	ug/L	0.05		U		0.046
MW-39	Heptachlor	ug/L	0.05		U	T	0.046
MW-39	Heptachlor epoxide	ug/L	0.05		U		0.046
MW-39	Methoxychlor	ug/L	0.50		U	<u> </u>	0.46
MW-39	Toxaphene	ug/L	5.0		Ü		4.6
MW-41	4,4'-DDD	ug/L	0.10		U	†	0.098

BOLD = Exceedance NA = Not Applicable

#### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect	<del></del>	Current	Event	
	\	1	during Baseline	Result	LQ	DQ	Detect Limit
MW-41	4,4'-DDE	ug/L	0.10	:	U		0.098
MW-41	4,4'-DDT	ug/L	0.10		U		0.098
MW-41	Aldrin	ug/L	0.05		U		0.049
MW-41	alpha-BHC	ug/L	0.05		U		0.049
MW-41	alpha-Chlordane	ug/L	0.05		U		0.049
MW-41	Aroclor-1016	ug/L	1.0		U	· · · · · · · · · · · · · · · · · · ·	0.98
MW-41	Aroclor-1221	ug/L .	2.0		U		2
MW-41	Aroclor-1232	ug/L	1.0		U	1	0.98
MW-41	Aroclor-1242	ug/L	1.0	5.	U		0.98
MW-41	Aroclor-1248	ug/L	1.0	• .	Ü		0.98
MW-41	Aroclor-1254	ug/L	1.0		U		0.98
MW-41	Aroclor-1260	ug/L	1.0		U		0.98
MW-41	beta-BHC	ug/L	0.05	······································	U		0.049
MW-41	delta-BHC	ug/L	0.05		U	<del> </del>	0.049
MW-41	Dieldrin	ug/L	0.10		Ü		0.098
MW-41	Endosulfan I	ug/L	0.05		U		0.049
MW-41	Endosulfan II	ug/L	0.10		Ū		0.098
MW-41	Endosulfan sulfate	ug/L	0.10		U		0.098
MW-41	Endrin	ug/L	0.10		U		0.098
MW-41	Endrin aldehyde	ug/L	0.10		U	<u></u>	0.098
MW-41	Endrin ketone	ug/L	0.10		U		0.098
MW-41	gamma-BHC	ug/L	0.05		บ	·	0.049
MW-41	gamma-Chlordane	ug/L	0.05	•	U		0.049
MW-41	Heptachlor	ug/L	0.05		U		0.049
MW-41	Heptachlor epoxide	ug/L	0.05		U		0.049
MW-41	Methoxychlor	ug/L	0.50		U		0.49
MW-41	Toxaphene	ug/L	5.0		U		4.9
MW-42	4,4'-DDD	ug/L	0.10		U		0.1
MW-42	4,4'-DDE	ug/L	0.10		U		0.1
MW-42	4,4'-DDT	ug/L	0.10	•	U		0.1
MW-42	Aldrin	ug/L	0.05		U		0.051
MW-42	alpha-BHC	ug/L	0.05		U		0.051
MW-42	alpha-Chlordane	ug/L	0.05		U		0.051
MW-42	Aroclor-1016	ug/L	1.0		U		1
MW-42	Aroclor-1221	ug/L	2.0		U		2
	Aroclor-1232	ug/L	1.0		U		1
MW-42	Aroclor-1242	ug/L	1.0		Ü		1
MW-42	Aroclor-1248	ug/L	1.0		Ū		1
MW-42	Aroclor-1254	ug/L	1.0		Ū		1
MW-42	Aroclor-1260	ug/L	1.0		Ü	1	1 1
MW-42	beta-BHC	ug/L	0.05		Ū	<del>                                     </del>	0.051
MW-42	delta-BHC	ug/L	0.05		บ	<del>                                     </del>	0.051
MW-42	Dieldrin	ug/L	0.10		Ü	1	0.031
MW-42	Endosulfan I	ug/L	0.05		U	<u> </u>	0.051
MW-42	Endosulfan II	ug/L	0.10		U	<del>                                     </del>	0.031
MW-42	Endosulfan sulfate	ug/L ug/L	0.10		U	<del>                                     </del>	0.1

BOLD = Exceedance NA = Not Applicable

#### **American Chemical Services NPL Site** Griffith, Indiana

Well	Analyte	Units	Highest Detect	<del></del>	Current	Event	
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-42	Endrin	ug/L	0.10		U		0.1
MW-42	Endrin aldehyde	ug/L	0.10		U		0.1
MW-42	Endrin ketone	ug/L	0.10		U		0.1
MW-42	gamma-BHC	ug/L	0.05		U		0.051
MW-42	gamma-Chlordane	ug/L	0.05		U		0.051
MW-42	Heptachlor	ug/L	0.05		U		0.051
MW-42	Heptachlor epoxide	ug/L	0.05		U		0.051
MW-42	Methoxychlor	ug/L	0.50		U ·		0.51
MW-42	Toxaphene	ug/L	5.0		U ·		5.1
MW-43	4,4'-DDD -	ug/L	0.10		U	· ·	0.097
MW-43	4,4'-DDE	ug/L	0.10		U		0.097
MW-43	4,4'-DDT	ug/L	0.10		U		0.097
MW-43	Aldrin	ug/L	0.05		U		0.048
MW-43	alpha-BHC	ug/L	0.05		U		0.048
MW-43	alpha-Chlordane	ug/L	0.05		U		0.048
MW-43	Aroclor-1016	ug/L	1.0		U		0.97
MW-43	Aroclor-1221	ug/L	2.0		U		1.9
MW-43	Aroclor-1232	ug/L	1.0		U		0.97
_MW-43	Aroclor-1242	ug/L	1.0		U		0.97
MW-43	Aroclor-1248	ug/L	1.0		U		0.97
MW-43	Aroclor-1254	ug/L	1.0		U		0.97
MW-43	Aroclor-1260	ug/L	1.0		U		0.97
MW-43	beta-BHC	ug/L	0.05	0.0045	JB	JВ	0.005
_MW-43	delta-BHC	ug/L	0.05		U	<u> </u>	0.048
_MW-43	Dieldrin	ug/L	0.10		U	ļ	0.097
_MW-43	Endosulfan I	ug/L	0.05		U		0.048
MW-43	Endosulfan II	ug/L	0.10		U	<u> </u>	0.097
MW-43	Endosulfan sulfate	ug/L	0.10		U	<u> </u>	0.097
MW-43	Endrin	ug/L	0.10		U	1	0.097
_MW-43	Endrin aldehyde	ug/L	0.10		U	<u> </u>	0.097
MW-43	Endrin ketone	ug/L	0.10		U	<u> </u>	0.097
_MW-43	gamma-BHC	ug/L	0.05		U	<u> </u>	0.048
MW-43	gamma-Chlordane	ug/L	0.05		U		0.048
MW-43	Heptachlor	ug/L	0.05		U		0.048
MW-43	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-43	Methoxychlor	ug/L	0.50		U .		0.48
MW-43	Toxaphene	ug/L	5.0		U		4.8
MW-44	4,4'-DDD	ug/L	0.10		U		0.1
MW-44	4,4'-DDE	ug/L	0.10		U		0.1
MW-44	4,4'-DDT	ug/L	0.10		U		0.1
MW-44	Aldrin	ug/L	0.05	0.0018	JP	JP	0.01
MW-44	alpha-BHC	ug/L	0.05		U		0.05
MW-44	alpha-Chlordane	ug/L	0.05		U		0.05
MW-44	Aroclor-1016	ug/L	1.0		U	1	1
MW-44	Aroclor-1221	ug/L	2.0		U	1	2
MW-44	Aroclor-1232	ug/L	1.0		U	1	1

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BOLD = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	· -
			during Baseline	Result	LQ	DQ	Detect Limit
MW-44	Aroclor-1242	ug/L	1.0		U_		1
MW-44	Aroclor-1248	ug/L	1.0		U		1
MW-44	Aroclor-1254	ug/L	1.0		U		1
MW-44	Aroclor-1260	ug/L	1.0		U		1
MW-44	beta-BHC	ug/L	0.05		U		0.05
MW-44	delta-BHC	ug/L	0.05		U.		0.05
MW-44	Dieldrin	ug/L	0.10		U		0.1
MW-44	Endosulfan I	ug/L	0.05		U		0.05
MW-44	Endosulfan II	ug/L	0.10		U.		0.1
MW-44	Endosulfan sulfate	ug/L_	0:10		U		0.1
MW-44	Endrin	ug/L	0.10	: :	U		0.1
MW-44	Endrin aldehyde	ug/L	0.10		U		0.1
MW-44	Endrin ketone	ug/L	0.10		Ū		0.1
MW-44	gamma-BHC	ug/L	0.05	:	U		0.05
MW-44	gamma-Chlordane	ug/L	0.05	0.0011	JP	JP	0.01
MW-44	Heptachlor	ug/L	0.05		Ū	JP	0.05
MW-44	Heptachlor epoxide	ug/L	0.05	0.0011	JР	JP_	0.01
MW-44	Methoxychlor	ug/L	0.50		U		0.5
MW-44	Toxaphene	ug/L	5.0		U		5
MW-45	4,4'-DDD	ug/L	0.10		U		0.1
MW-45	4,4'-DDE	ug/L	0.10		U		0.1
MW-45	4,4'-DDT	ug/L	0:10	<del> </del>	U		0.1
MW-45	Aldrin	ug/L	0.05		U		0.05
MW-45	alpha-BHC	ug/L	0.05	0.0032	JP	JР	0.005
MW-45	alpha-Chlordane	ug/L	0.05		U		0.05
MW-45	Aroclor-1016	ug/L	1.0		U		1
MW-45	Aroclor-1221	ug/L	2.0		U		2
MW-45	Aroclor-1232	ug/L	1.0		U		1
MW-45	Aroclor-1242	ug/L	1.0		U		1
MW-45	Aroclor-1248	ug/L	1.0		U		1
MW-45	Aroclor-1254	ug/L_	1.0		U		1
MW-45	Aroclor-1260	ug/L	1.0		U		1
MW-45	beta-BHC	ug/L	0.05	0.0078	JP	JP	0.005
MW-45	delta-BHC	ug/L	0.05		U		0.05
MW-45	Dieldrin	ug/L	0.10		U		0.1
MW-45	Endosulfan I	ug/L	0.05		U		0.05
MW-45	Endosulfan II	ug/L	0.10		U		0.1
MW-45	Endosulfan sulfate	ug/L	0.10		U		0.1
MW-45	Endrin	ug/L	0.10		Ü		0.1
MW-45	Endrin aldehyde	ug/L	0.10		U		0.1
MW-45	Endrin ketone	ug/L	0.10		U		0.1
MW-45	gamma-BHC	ug/L	0.05		U		0.05
MW-45	gamma-Chlordane	ug/L	0.05		U		0.05
MW-45	Heptachlor	ug/L	0.05		U		0.05
MW-45	Heptachlor epoxide	ug/L_	0.05		U		0.05
MW-45	Methoxychlor	ug/L	0.50	-	U		0.5

BOLD = Exceedance

NA = Not Applicable

#### **American Chemical Services NPL Site** Griffith, Indiana

Well	Analyte	Units	Highest Detect	·	Current	Event	<del></del>
_			during Baseline	Result	LQ	DQ	Detect Limit
MW-45	Toxaphene	ug/L	5.0		U		5
MW-46	4,4'-DDD	ug/L	0.10		U		0.095
MW-46	4,4'-DDE	ug/L	0.10		U		0.095
MW-46	4,4'-DDT	ug/L	0.10		U		0.095
MW-46	Aldrin	ug/L	0.05		U		0.048
MW-46	alpha-BHC	ug/L	0.05		U		0.048
MW-46	alpha-Chlordane	ug/L	0.05		U		0.048
MW-46	Aroclor-1016	ug/L	1.0		U		0.95
MW-46	Aroclor-1221	ug/L	2.0		U		1.9
MW-46	Aroclor-1232	ug/L	1.0		U		0.95
MW-46	Aroclor-1242	ug/L	1.0		U		0.95
MW-46	Aroclor-1248	ug/L	1.0		U		0.95
MW-46	Aroclor-1254	ug/L	1.0		U		0.95
MW-46	Aroclor-1260	ug/L	1.0		U	<u> </u>	0.95
MW-46	beta-BHC	ug/L	0.05		U		0.048
MW-46	delta-BHC	ug/L	0.05		U		0.048
MW-46	Dieldrin	ug/L	0.10		U		0.095
MW-46	Endosulfan I	ug/L	0.05		U		0.048
MW-46	Endosulfan II	ug/L	0.10		U		0.095
MW-46	Endosulfan sulfate	ug/L	0.10		U		0.095
MW-46	Endrin	ug/L	0.10	·	U		0.095
. MW-46	Endrin aldehyde	ug/L	0.10		U		0.095
MW-46	Endrin ketone	ug/L	0.10		U		0.095
MW-46	gamma-BHC	ug/L	0.05		U		0.048
MW-46	gamma-Chlordane	ug/L	2.2		U		0.048
MW-46	Heptachlor	ug/L	0.05		Ŭ		0.048
MW-46	Heptachlor epoxide	ug/L	0.05		U		0.048
MW-46	Methoxychlor	ug/L	0.50		U		0.48
MW-46	Toxaphene	ug/L	5.0		U		4.8
MW-47	4,4'-DDD	ug/L	0.10		U		0.098
MW-47	4,4'-DDE	ug/L	0.10		U		0.098
MW-47	4,4'-DDT	ug/L	0.10	,	U		0.098
MW-47	Aldrin	ug/L	0.05		U	UJ	0.049
MW-47	alpha-BHC	ug/L	0.05		U		0.049
MW-47	alpha-Chlordane	ug/L	0.05		U		0.049
MW-47	Aroclor-1016	ug/L	1.0		U		0.98
MW-47	Aroclor-1221	ug/L	2.0		Ū		2
MW-47	Aroclor-1232	ug/L	1.0		Ü		0.98
MW-47	Aroclor-1242	ug/L	1.0		Ū		0.98
MW-47	Aroclor-1248	ug/L	1.0		Ŭ	<del>                                     </del>	0.98
MW-47	Aroclor-1254	ug/L	1.0		Ū	<b></b>	0.98
MW-47	Aroclor-1260	ug/L	1.0		T U		0.98
MW-47	beta-BHC	ug/L	0.05		U	<del> </del>	0.049
MW-47	delta-BHC	ug/L	0.05		U	<del>                                     </del>	0.049
MW-47	Dieldrin	ug/L	0.10		U	UJ	0.049
MW-47	Endosulfan I	ug/L ug/L	0.10		U	<del>                                     </del>	0.049

BOLD = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-47	Endosulfan II	ug/L	0.10		U		0.098
MW-47	Endosulfan sulfate	ug/L	0.10		Ŭ		0.098
MW-47	Endrin	ug/L	0.10		U	UJ	0.098
MW-47	Endrin aldehyde	ug/L	0.10		U		0.098
MW-47	Endrin ketone	ug/L	0.10		U		0.098
MW-47	gamma-BHC	ug/L	0.05		Ü	UJ	0.049
MW-47	gamma-Chlordane	ug/L	0.05		U		0.049
MW-47	Heptachlor	ug/L	0.05		U	UJ	0.049
MW-47	Heptachlor epoxide	ug/L	0.05		Ü		0.049
MW-47	Methoxychlor	ug/L	0.50		U		0.49
MW-47	Toxaphene	ug/L	5.0	· · ·	U		4.9
MW-48	4,4'-DDD	ug/L	0.10		U		0.095
MW-48	4,4'-DDE	ug/L	0.10		Ű		0.095
MW-48	4,4'-DDT	ug/L	0.10		Ü		0.095
MW-48	Aldrin	ug/L	0.05		U		0.048
MW-48	alpha-BHC	ug/L	0.05	0.011	JP	JP	0.005
MW-48	alpha-Chlordane	ug/L	0.05		Ú		0.048
MW-48	Aroclor-1016	ug/L	1.0	<del></del>	U		0.95
MW-48	Aroclor-1221	ug/L	2.0	··	U		1.9
MW-48	Aroclor-1232	ug/L	1.0		Ü		0.95
MW-48	Aroclor-1242	ug/L	1.0		U		0.95
MW-48	Aroclor-1248	ug/L	1.0		U		0.95
MW-48	Aroclor-1254	ug/L	1.0		U		0.95
MW-48	Aroclor-1260	ug/L	1.0		U		0.95
MW-48	beta-BHC	ug/L	0.05		U		0.048_
MW-48	delta-BHC	ug/L	0.05		U		0.048
MW-48	Dieldrin	ug/L	0.10		Ü		0.095
MW-48	Endosulfan I	ug/L	0.05		U		0.048
MW-48	Endosulfan II	ug/L	0.10		U		0.095
MW-48	Endosulfan sulfate	ug/L	0.10	<u> </u>	U		0.095
MW-48	Endrin	ug/L	0.10		U		0.095
MW-48	Endrin aldehyde	ug/L	0.10		U		0.095
MW-48	Endrin ketone	ug/L	0.10	<del>-</del>	U		0.095
MW-48	gamma-BHC	ug/L	0.05		Ü		0.048
MW-48	gamma-Chlordane	ug/L	0.05		U		0.048
MW-48	Heptachlor	ug/L	0.05	0.0018	JP	JP	0.005
MW-48	Heptachlor epoxide	ug/L	0.05		U	<u> </u>	0.048
MW-48	Methoxychlor	ug/L	0.50	<u></u> .	Ū		0.48
MW-48	Toxaphene	ug/L	5.0	··	Ū		4.8
MW-49	4,4'-DDD	ug/L	0.10	<del></del>	Ū	UJ	0.095_
MW-49	4,4'-DDE	ug/L	0.10		Ū	UJ	0.095
MW-49	4,4'-DDT	ug/L	0.10			UJ	0.095
MW-49	Aldrin	ug/L	0.05		Ŭ	UJ	0.048
MW-49	alpha-BHC	ug/L	0.05		Ü	UJ	0.048
MW-49	alpha-Chlordane	ug/L	0.05		U	Ü	0.048
MW-49	Aroclor-1016	ug/L	1.0		U	UJ	0.95

BOLD: = Exceedance NA = Not Applicable

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-49	Aroclor-1221	ug/L	2.0		Ü	UJ	1.9
MW-49	Aroclor-1232	ug/L	1.0		U	UJ	0.95
MW-49	Aroclor-1242	ug/L	1.0		U	UJ	0.95
MW-49	Aroclor-1248	ug/L	1.0	. <u>-</u> .	U	UJ	0.95
MW-49	Aroclor-1254	ug/L	1.0		U	UJ	0.95
MW-49	Aroclor-1260	ug/L	1.0.	•-	U	UJ	0.95
MW-49	beta-BHC	ug/L	0.05		U	UJ	0.048
MW-49	delta-BHC	ug/L	0.05	0.0019	· JP	JP	0.005
MW-49	Dieldrin	ug/L	0.10		U	UJ	0.095
MW-49	Endosulfan I	ug/L	0.05		U	UJ	0.048
MW-49	Endosulfan II	ug/L	0.10		U	UJ	0.095
MW-49	Endosulfan sulfate	ug/L	0.10		U	UJ	0.095
MW-49	Endrin	ug/L	0.10		U	UJ	0.095
MW-49	Endrin aldehyde	ug/L	. 0.10		U	UJ	0.095
MW-49	Endrin ketone	ug/L	0.10	0.0044	JBP	JP	0.01
MW-49	gamma-BHC	ug/L	0.05		U	UJ	0.048
MW-49	gamma-Chlordane	ug/L	0.05	,	U	UJ	0.048
MW-49	Heptachlor	ug/L	0.05	0.0083	JP	JP	0.005
MW-49	Heptachlor epoxide	ug/L	0.05		U	UJ	0.048
MW-49	Methoxychlor	ug/L	0.50		Ü	UJ	0.48
MW-49	Toxaphene	ug/L	5.0		U	UJ	4.8
MW-50	4,4'-DDD	ug/L	0.10		U		0.1
MW-50	4,4'-DDE	ug/L	0.10		U		0.1
MW-50	4,4'-DDT	ug/L	0.10		U		0.1
MW-50	Aldrin	ug/L	0.05		U		0.05
MW-50	alpha-BHC	ug/L	0.05		U		0.05
MW-50	alpha-Chlordane	ug/L	0.05		U		0.05
MW-50	Aroclor-1016	ug/L	1.0		U		1
MW-50	Aroclor-1221	ug/L	2.0		U		2
MW-50	Aroclor-1232	ug/L	1.0		U.		1
MW-50	Aroclor-1242	ug/L	1.0		U		1
MW-50	Aroclor-1248	ug/L	1.0		U		1
MW-50	Aroclor-1254	ug/L	1.0		U		î
MW-50	Aroclor-1260	ug/L	1.0		U		1
MW-50	beta-BHC	ug/L	0.05	0.009	JBP	JP	0.005
MW-50	delta-BHC	ug/L	0.05	0.00098	JBP	JP	0.005
MW-50	Dieldrin	ug/L	0.10		U	<u> </u>	0.1
MW-50	Endosulfan I	ug/L	0.05		Ü		0.05
MW-50	Endosulfan II	ug/L	0.10		Ü		0.1
MW-50	Endosulfan sulfate	ug/L	0.10		Ŭ		0.1
MW-50	Endrin	ug/L	0.10	<del></del>	Ü		0.1
MW-50	Endrin aldehyde	ug/L	0.10		Ü		0.1
MW-50	Endrin ketone	ug/L	0.10		Ū	<del>                                     </del>	0.1
MW-50	gamma-BHC	ug/L	0.05		U	<del>                                     </del>	0.05
MW-50	gamma-Chlordane	ug/L	0.05	<del></del>	U	<del>                                     </del>	0.05
MW-50	Heptachlor	ug/L	0.05		U	<del>                                     </del>	0.05
141 44 - 20	Tropiacinoi	ug/L	0.03			<u> </u>	1 0.03

BOLD = Exceedance

NA = Not Applicable

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-50	Heptachlor epoxide	ug/L	0.05		U		0.05
MW-50	Methoxychlor	ug/L	0.50	0.0063	JBP	JPB	0.05
MW-50	Toxaphene	ug/L	5.0	•	U		5_
MW-51	4,4'-DDD	ug/L	, 0.10		U		0.096
MW-51	4,4'-DDE	ug/L	0.10		U		0.096 :
MW-51	4,4'-DDT	ug/L	0.10		Ü		0.096
MW-51	Aldrin	ug/L	0.05		U		0.048
MW-51	alpha-BHC	ug/L	0.05	0.0015	JP	JP	0.005
MW-51	alpha-Chlordane	ug/L	0.05		U	<u> </u>	0.048
MW-51	Aroclor-1016	ug/L	1.0		U		0.96
MW-51	Aroclor-1221	ug/L	2.0	1	U		1.9
MW-51	Aroclor-1232	ug/L	1.0		U		0.96
MW-51	Aroclor-1242	ug/L	1.0		U		0.96
MW-51	Aroclor-1248	ug/L	1.0		U		0.96
MW-51	Aroclor-1254	ug/L	1.0		U		0.96
MW-51	Aroclor-1260	ug/L	1.0		U		0.96
MW-51	beta-BHC	ug/L	0.05		U		0.048
MW-51	delta-BHC	ug/L	0.05		U		0.048
MW-51	Dieldrin	ug/L	0.10		U		0.096
MW-51	Endosulfan I	ug/L	0.05		Ŭ		0.048
MW-51	Endosulfan II	ug/L	0.10		U		0.096
MW-51	Endosulfan sulfate	ug/L	0.10		U	·	0.096
_MW-51	Endrin	ug/L	0.10		U		0.096
MW-51	Endrin aldehyde	ug/L	0.10		U		0.096
MW-51	Endrin ketone	ug/L	0.10		Ŭ	<u></u>	0.096
MW-51	gamma-BHC	ug/L	0.05		U	<u> </u>	0.048
MW-51	gamma-Chlordane	ug/L	0.05		U	<u> </u>	0.048
MW-51	Heptachlor	ug/L	0.05		U		0.048
MW-51	Heptachlor epoxide	ug/L	0.05		U	ļ	0.048
MW-51	Methoxychlor	ug/L	0.50		U		0.48
MW-51	Toxaphene	ug/L	5.0		U		4.8
MW-52	4,4'-DDD	ug/L	0.10		U	UJ	0.1
MW-52	4,4'-DDE_	ug/L	0.10		U	UJ	0.1
MW-52	4,4'-DDT	ug/L	0.10		U	UJ	0.1
MW-52	Aldrin	ug/L	0.05		U	UJ	0.05
MW-52	alpha-BHC	ug/L	0.05		U	UJ	0.05
MW-52	alpha-Chlordane	ug/L	0.05		U	UJ	0.05
MW-52	Aroclor-1016	ug/L	1.0		U	UJ	11
MW-52	Aroclor-1221	ug/L	2.0		U	UJ	2
MW-52	Aroclor-1232	ug/L	1.0		U	UJ	11
MW-52	Aroclor-1242	ug/L	1.0		U	UJ	1
MW-52	Aroclor-1248	ug/L	1.0	· .	U	UJ	11
MW-52	Aroclor-1254	ug/L	1.0		U	UJ	11
MW-52	Aroclor-1260	ug/L	1.0		U	UJ	1
MW-52	beta-BHC	ug/L	0.05		U	UJ	0.05
MW-52	delta-BHC	ug/L	0.05	0.0025	J	J	0.005

BOLD = Exceedance

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-52	Dieldrin	ug/L	0.10		U	UJ	0.1
MW-52	Endosulfan I	ug/L	0.05		U	UJ	0.05
MW-52	Endosulfan II	ug/L	0.10		U	UJ	0.1
MW-52	Endosulfan sulfate	ug/L	0.10		U	UJ	0.1
MW-52	Endrin	ug/L	0.10		. U	UJ	0.1
MW-52	Endrin aldehyde	ug/L	. 0.10		U	UJ	0.1 -
MW-52	Endrin ketone .	ug/L	0.10	0.0038	JBP	JP	0.01
MW-52	gamma-BHC	ug/L	0.05		U	UJ_	0.05
MW-52	gamma-Chlordane	ug/L	0.05		· U	UJ	0.05
MW-52	Heptachlor	ug/L	- 0.05		U	UJ	0.05
MW-52	Heptachlor epoxide	ug/L	0.05		U	UJ	0.05
MW-52	Methoxychlor	ug/L	0.50		U	UJ	0.5
MW-52	Toxaphene	ug/L	5.0		U	UJ_	5
MW-53	4,4'-DDD	ug/L	0.10		U	UJ	0.1
MW-53	4,4'-DDE	ug/L	0.10		U	UJ	0.1
MW-53	4,4'-DDT	ug/L	0.10		U	UJ_	0.1
MW-53	Aldrin	ug/L	0.05		U	UJ_	0.05
MW-53	alpha-BHC	ug/L	0.05		U	UJ_	0.05
MW-53	alpha-Chlordane	ug/L	0.05		. U	UJ	0.05
MW-53	Aroclor-1016	ug/L	1.0		U	UJ	1
MW-53	Aroclor-1221	ug/L	2.0		U	UJ	2
MW-53	Aroclor-1232	ug/L	1.0		: U	UJ	1
MW-53	Aroclor-1242	ug/L	1.0		U	UJ_	1
MW-53	Aroclor-1248	ug/L	1.0		U	UJ	1
MW-53	Aroclor-1254	ug/L	1.0		U	UJ	1
MW-53	Aroclor-1260	ug/L	1.0		U	UJ	. 1
MW-53	beta-BHC	ug/L	0.05		U	UJ_	0.05
MW-53	delta-BHC	ug/L	0.05	0.0082	J	J	0.005
MW-53	Dieldrin	ug/L	0.10		U	UJ_	0.1
MW-53	Endosulfan I	ug/L	0.05		U	UJ	0.05
MW-53	Endosulfan II	ug/L	0.10	<u> </u>	U	UJ	0.1
MW-53	Endosulfan sulfate	ug/L	0.10		U	UJ_	0.1
MW-53	Endrin	ug/L	0.10		U	UJ	0.1
MW-53	Endrin aldehyde	ug/L	0.10		U	UJ	0.1
MW-53	Endrin ketone	ug/L	0.10	0.0069	JBP	JР	0.01
MW-53	gamma-BHC	ug/L	0.05		U	UJ	0.05
MW-53	gamma-Chlordane	ug/L	0.05		U	UJ	0.05
MW-53	Heptachlor	ug/L	0.05	0.0085	JP	JP	0.005
MW-53	Heptachlor epoxide	ug/L	0.05		U	UJ	0.05
MW-53	Methoxychlor	ug/L	0.50		U	UJ	0.5
MW-53	Toxaphene	ug/L	5.0		U	UJ	5
	4,4'-DDD	ug/L	0.10		U	1	0.096
	4,4'-DDE	ug/L	0.10		U		0.096
	4,4'-DDT	ug/L	0.10		Ü		0.096
MW-54R		ug/L	0.05		U		0.048
	alpha-BHC	ug/L	0.05		U		0.048

BOLD: = Exceedance
NA = Not Applicable

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-54R	alpha-Chlordane	ug/L	0.05		Ü		0.048
MW-54R	Aroclor-1016	ug/L	1.0		U		0.96
	Aroclor-1221	ug/L	2.0		U		1.9
	Aroclor-1232	ug/L	1.0		U		0.96
	Aroclor-1242	ug/L	1.0		Ū		0.96
	Aroclor-1248	ug/L	1.0		U		0.96
MW-54R	Aroclor-1254 .	ug/L	1.0		Ü		0.96
MW-54R	Aroclor-1260	ug/L	1.0		Ū	<b>—</b>	0.96
MW-54R	beta-BHC	ug/L	0.05	0.012	JBP	<b></b>	0.005
MW-54R	delta-BHC	ug/L	0.05	0.0018	JB		0.005
	Dieldrin	ug/L	0.10	3,33	Ū		0.096
	Endosulfan I	ug/L	0.05	<del></del>	Ū		0.048
	Endosulfan II	ug/L	0.10		Ū	<del>                                     </del>	0.096
	Endosulfan sulfate	ug/L	0.10		Ū	<del>                                     </del>	0.096
MW-54R		ug/L	0.10		U	<del> </del>	0.096
	Endrin aldehyde	ug/L	0.10	<del></del>	Ū		0.096
	Endrin ketone	ug/L	0.10		Τ <del>υ</del>		0.096
	gamma-BHC	ug/L	0.05		Ü		0.048
	gamma-Chlordane	ug/L	0.05		U		0.048
	Heptachlor	ug/L	0.05	· · · · ·	Ū	<del>                                     </del>	0.048
	Heptachlor epoxide	ug/L	0.05	<del></del>	Ū		0.048
	Methoxychlor	ug/L	0.50	<del> </del>	Ū		0.48
	Toxaphene	ug/L	5.0		Ū		4.8
	4,4'-DDD	ug/L	0.10		Ü		0.099
	4,4'-DDE	ug/L	0.10		U.	<del>                                     </del>	0.099
	4,4'-DDT	ug/L	0.10		U		0.099
MW-55	Aldrin	ug/L	0.05		Ū		0.05
MW-55	alpha-BHC	ug/L	0.05	·	Ū	-	0.05
MW-55	alpha-Chlordane	ug/L	0.05		U	<del>                                     </del>	0.05
MW-55	Aroclor-1016	ug/L	1.0		Ū		0.99
MW-55	Aroclor-1221	ug/L	2.0		Ŭ		2
MW-55	Aroclor-1232	ug/L	1.0		Ü	1	0.99
MW-55	Aroclor-1242	ug/L	1.0		U		0.99
MW-55	Aroclor-1248	ug/L	1.0		Ü		0.99
MW-55	Aroclor-1254	ug/L	1.0		U		0.99
MW-55	Aroclor-1260	ug/L	1.0		U		0.99
MW-55	beta-BHC	ug/L	0.05	0.016	JBP	JP	0.005
MW-55	delta-BHC	ug/L	0.05	0.0023	JBP	JP	0.003
MW-55	Dieldrin	ug/L ug/L	0.10	0.0023	U	- 31	
MW-55	Endosulfan I	ug/L ug/L	0.10		U	<b> </b>	0.099
MW-55	Endosulfan II	ug/L ug/L	0.03		υ	<del> </del>	
MW-55	Endosulfan sulfate		0.10		U	-	0.099
	Endosulian sulfate  Endrin	ug/L		<u> </u>	U	<del>                                     </del>	0.099
MW-55	<del></del>	ug/L	0.10		U	<del> </del>	0.099
MW-55 MW-55	Endrin aldehyde	ug/L	0.10			<b> </b>	0.099
	Endrin ketone	ug/L	0.10		U	<del>                                     </del>	0.099
MW-55	gamma-BHC	ug/L	0.05		U	<u> </u>	0.05

BOLD: = Exceedance

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect				
			during Baseline	Result	LQ	DQ	Detect Limit
MW-55	gamma-Chlordane	ug/L	0.05		Ü		0.05
MW-55	Heptachlor	ug/L	0.05		U		0.05
MW-55	Heptachlor epoxide	ug/L	0.05		U		0.05
MW-55	Methoxychlor	ug/L	0.50		U		0.5
MW-55	Toxaphene	ug/L	5.0		U		5

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect	Current Event				
			during Baseline	Result	LQ	DQ	Detect Limit	
ATMW-4D	Aluminum	UG/L		296		U	8.9	
ATMW-4D	Antimony	UG/L			U		1	
ATMW-4D	Arsenic	UG/L			U	•	1.4	
ATMW-4D	Barium	UG/L		110	В		0.1	
ATMW-4D		UG/L		0.29	В	U	0.1	
ATMW-4D		UG/L	_	0.99	В		0.2	
ATMW-4D		UG/L		87,200			8.5	
	Chromium (Total)	UG/L		8.4	В		0.5	
ATMW-4D		UG/L		0.97	В	U	0.4	
ATMW-4D		UG/L		2.7	В	U	0.3	
	Cyanide (Total)	UG/L			U	U	4.7	
ATMW-4D		UG/L		1,580			8.8	
ATMW-4D		UG/L		2	В	U	1	
	Magnesium	UG/L		48,200	_		2.7	
	Manganese	UG/L	-	117			0.1	
ATMW-4D		UG/L			U	İ	0.05	
ATMW-4D		UG/L		10.4	В	U	0.5	
ATMW-4D		UG/L		6,300	Е	1	11.1	
ATMW-4D	·	UG/L		-,	U		1.6	
ATMW-4D		UG/L			U	İ	0.4	
ATMW-4D		UG/L		62,500	_	<u> </u>	101	
ATMW-4D		UG/L		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	U	1	2.1	
ATMW-4D	<del></del>	UG/L			U	ļ	0.4	
ATMW-4D		UG/L			U		0.4	
M-1S	Arsenic	UG/L	3.0		U		2	
M-1S	Lead	UG/L	2.5		U		1	
M-4D	Arsenic	UG/L	2.5		U		2	
M-4D	Lead	UG/L	3.1		U		1	
M-4S	Aluminum	UG/L	1,120	83.9	В	J	33.2	
M-4S	Antimony	UG/L	2.0	3.2	B	J	1.8	
M-4S	Arsenic	UG/L	6.8	2.7	В	J	2	
M-4S	Barium	UG/L	737	589			0.2	
M-4S	Beryllium	UG/L	1.2	0.44	В	J	0.1	
M-4S	Cadmium	UG/L	1.0	25F 251.872 3 ES	В	Ј	0.5	
M-4S	Calcium	UG/L	397,000	350,000		1	10.7	
M-4S	Chromium (Total)	UG/L	68	6.2	B	J	0.9	
M-4S	Cobalt	UG/L	8.2	6	<u>B</u>	J	0.6	
M-4S	Copper	UG/L	11	†	U	J	1.1	
M-4S	Cyanide (Total)	UG/L	10	<del>                                     </del>	U	<b> </b>	4.7	
M-4S	Iron	UG/L	39,500	33,500			18.9	
M-4S	Lead	UG/L	6.1	22,200	U	1	18.9	
M-4S	Magnesium	UG/L	57,300	42,900		†	7.7	
M-4S	Manganese	UG/L	582	399		<del> </del>	0.1	
M-4S	Mercury	UG/L	0.20		U	UJ	0.05	
M-4S	Nickel	UG/L	75	11.5	<u></u> В	J	0.03	
M-4S	Potassium	UG/L	23,000	18,800	<u></u> Е	J	61.8	

**BOLD** = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
		$\perp$	during Baseline	Result	LQ	DQ	Detect Limit
M-4S	Selenium	UG/L	2.0	3.1 ×	UN		3.1
M-4S	Silver	UG/L	1.0		Ü		0.3
M-4S	Sodium	UG/L	130,000	99,400			212
M-4S	Thallium	UG/L	3.0		U	1	4.1
M-4S	Vanadium	UG/L	3.9	2.9	В	J	0.6
M-4S	Zinc	UG/L	30	2.5	B*	J	1.1
MW-06	Aluminum	UG/L	180	41.3	В	J	33.2
MW-06	Antimony	UG/L	2.1	3:2	В	J	1.8
MW-06	Arsenic	UG/L	72	17.9			2
MW-06	Barium	UG/L	369	269			0.2
MW-06	Beryllium	UG/L	1.0	0.25	В	J	0.1
MW-06	Cadmium	UG/L	1.0	285.62.1	В	J	0.5
MW-06	Calcium	UG/L	216,000	260,000			10.7
MW-06	Chromium (Total)	UG/L	33	8.1	В	J	0.9
MW-06	Cobalt	UG/L	3.6	2.4	В	J	0.6
MW-06	Соррег	UG/L	52	3.7	B	J	1.1
MW-06	Cyanide (Total)	UG/L	17	12.8			4.7
MW-06	Iron	UG/L	16,500	7,780			18.9
MW-06	Lead	UG/L	9.6	1	Ŭ		1
MW-06	Magnesium	UG/L	37,600	45:700 S			7.7
- MW-06	Manganese	UG/L	2,900	1,050			0.1
MW-06	Mercury	UG/L	0.20		U	UJ	0.05
MW-06	Nickel	UG/L	39	20.2	В	J	1
MW-06	Potassium	UG/L	27,400	16,500	E	J	61.8
MW-06	Selenium	UG/L	2.0	3.1	UN		3.1
MW-06	Silver	UG/L	1.0		U		0.3
MW-06	Sodium	UG/L	449,000	233,000			212
MW-06	Thallium	UG/L	3.6		U		4.1
MW-06	Vanadium	UG/L	3.8	0.68	В	J	0.6
MW-06	Zinc	UG/L	27	2.3	B*	J	1.1
MW-07	Arsenic	UG/L	3.5		U		2
MW-07	Lead	UG/L	5.8		U		1
MW-08	Aluminum	UG/L	839	88.5	В	U	8.9
MW-08	Antimony	UG/L	2.0		Ŭ		11
MW-08	Arsenic	UG/L	6.1		Ù		1.4
MW-08	Barium	UG/L	128	121	В		0.1
MW-08	Beryllium	UG/L	1.0	0.26	В	U	0.1
MW-08	Cadmium	UG/L	1.0	0.35	В		0.2
MW-08	Calcium	UG/L	58,300	52,200			8.5
MW-08	Chromium (Total)	UG/L	37	3.5	В		0.5
MW-08	Cobalt	UG/L	1.8	1.1	В	U	0.4
MW-08	Copper	UG/L	7.3	1.7	В	Ü	0.3
MW-08	Cyanide (Total)	UG/L	10		U	1	4.7
MW-08	Iron	UG/L	3,420	1,720		i i	8.8
MW-08	Lead	UG/L	3.4	1.5	В	Ü	1
MW-08	Magnesium	UG/L	18,600	17,400		1	2.7

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# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-08	Manganese	UG/L	173	100			0.1
MW-08	Mercury	UG/L	0.20		U		0.05
MW-08	Nickel	UG/L	23		U	U	0.5
MW-08	Potassium	UG/L	1,540	862	BE		11.1
MW-08	Selenium	UG/L	2.0		U		1.6
MW-08	Silver	UG/L	1.0		U	†	0.4
MW-08	Sodium	UG/L	13,500	14,200			101
MW-08	Thallium	UG/L	3.0		U		2.1
MW-08.	Vanadium	UG/L	2.0		U		0.4
MW-08	Zinc	UG/L	34	0.97	В	U	0.4
MW-09R	Aluminum	UG/L	2,580	296		<u> </u>	33.2
MW-09R	Antimony	UG/L	2.0		U	<u> </u>	1.8
MW-09R	Arsenic	UG/L	6.8	2	В	J	2
MW-09R	Barium	UG/L	349	230		<u> </u>	0.2
MW-09R	Beryllium	UG/L	1.0	0.36	В	J	0.1
MW-09R	Cadmium	UG/L	2.4	0.92	В	J	0.5
MW-09R	Calcium	UG/L	159,000	119,000			10.7
MW-09R	Chromium (Total)	UG/L	45	25.9			0.9
MW-09R	Cobalt	UG/L	9.3	3.3	В	J	0.6
MW-09R	Copper	UG/L	24	5.7	В.	J	1.1
MW-09R	Cyanide (Total)	UG/L	10		Ü	<u> </u>	4.7
MW-09R	Iron	UG/L	20,700	4,980			18.9
	Lead	UG/L	6.7		U	1	1
	Magnesium	UG/L	33,000	16,400	····		7.7
	Manganese	UG/L	249	199			0.1
MW-09R	Mercury	UG/L	0.67		U	UJ	0.05
MW-09R	Nickel	UG/L	38	18.2	В	J	1
MW-09R	Potassium	UG/L	11,150	7,790	E	J	61.8
MW-09R	Selenium	UG/L	2.0	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	UN		3.1
MW-09R	Silver	UG/L	1.0		U		0.3
MW-09R	Sodium	UG/L	110,000	37,400		<del>                                     </del>	212
MW-09R	Thallium	UG/L	3.0		U		4.1
MW-09R	Vanadium	UG/L	9.6	2.5	В	J	0.6
MW-09R	Zinc	UG/L	41	20.6	*	J	1.1
MW-10C	Aluminum	UG/L	6,990	384	· ·	<del>                                     </del>	33.2
	Antimony	UG/L	2.8	2.1	В	J	1.8
MW-10C	Arsenic	UG/L	10	<del> </del>	U	1	2
		UG/L	372	333	<u>~_</u>		0.2
	Beryllium	UG/L	1.3	0.33	В	J	0.1
MW-10C		UG/L	1.0	0.55	U	<del>                                     </del>	0.1
MW-10C		UG/L	141,000	103,000		<del>                                     </del>	10.7
MW-10C MW-10C		UG/L	360	15.4		<del> </del>	0.9
MW-10C MW-10C	<del></del>	UG/L	14	2.7	В	J	1
MW-10C MW-10C	<del></del>	UG/L	46	3.6	В	J	0.6
			10		<u>В</u>	J	1.1
MW-10C		UG/L		7.4	מ	<del>                                     </del>	4.7
<u>MW-10C</u>	Iron	UG/L	21,300	8,520		<u>i                                    </u>	18.9

BOLD = Exceedance

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect	<u> </u>	Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-10C	Lead	UG/L	19		U		1
MW-10C	Magnesium	UG/L	65,900	52,200			7.7
MW-10C	Manganese	UG/L	447	74	•		0.1
MW-10C	Mercury	UG/L	0.20		Ü	UJ	0.05
MW-10C	Nickel	UG/L	257	13.4	В	J	1
MW-10C	Potassium	UG/L	7,460	3,630	BE	J	61.8
MW-10C	Selenium	UG/L	2.0	3311.524	UN		3.1
MW-10C	Silver	UG/L	1.0		U		0.3
MW-10C	Sodium	UG/L	193,000	186,000			212
MW-10C	Thallium	UG/L	3.0	-	U		4.1
MW-10C	Vanadium	UG/L	15	2	В	J	0.6
MW-10C	Zinc	UG/L	119	5.1	B*	J	1.1
MW-11	Arsenic	UG/L	2.0	4.2	В	В	2
MW-11	Lead	UG/L	7.9	1.7	В	В	1
MW-12	Arsenic	UG/L	7.8		U		1.4
MW-12	Lead	UG/L	12	1.6	В	U	1
MW-13	Aluminum	UG/L	427	50.2	. В	J	33.2
MW-13	Antimony	UG/L	2.0		U	Ì	1.8
MW-13	Arsenic	UG/L	2.0	2.2	В	J	2
MW-13	Barium	UG/L	69	83.2	В	J	0.2
MW-13	Beryllium	UG/L	1.0	0.19	В	JB	0.1
MW-13	Cadmium	UG/L	1.0	1.20 (1.20)	В	J	0.5
MW-13	Calcium	UG/L	130,000	16,500			10.7
MW-13	Chromium (Total)	UG/L	4.2		U		0.9
MW-13	Cobalt	UG/L	1.9		U		0.6
MW-13	Copper	UG/L	5.9		U		1.1
MW-13	Cyanide (Total)	UG/L	10		U		4.7
MW-13	Iron	UG/L	6,090	7,620			18.9
MW-13	Lead	UG/L	2.3		U		1
MW-13	Magnesium	UG/L	37,000	48,900			7.7
MW-13	Manganese	UG/L	674	813		-	0.1
MW-13	Mercury	UG/L	0.20		U	UJ	0.02
MW-13	Nickel	UG/L	4.3	1.4	В	J	1
MW-13	Potassium	UG/L	2,940	1,720	BE	JB	61.8
MW-13	Selenium	UG/L	2.0		U		3.1
MW-13	Silver	UG/L	1.0		U		0.3
MW-13	Sodium	UG/L	35,700	26,100			212
MW-13	Thallium	UG/L	3.0		U		4.1
MW-13	Vanadium	UG/L	1.8	0.89	В	J	0.6
MW-13	Zinc	UG/L	17	2	В	J	1.1
MW-14	Aluminum	UG/L	13,800	8,300			33.2
MW-14	Antimony	UG/L	2.3	2:93	В	J	1.8
MW-14	Arsenic	UG/L	11	67:2	-	T	2
MW-14	Barium	UG/L	122	119	В	J	0.2
MW-14	Beryllium	UG/L	1.0	0.93	В	J	0.1
MW-14	Cadmium	UG/L	1.0		U	<del>                                     </del>	0.5

BOLD: = Exceedance

#### American Chemical Services NPL Site Griffith, Indiana

Well An	Analyte	Analyte Units			Current	Event	
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-14	Calcium	UG/L	142,000	54,400			10.7
MW-14	Chromium (Total)	UG/L	36	185			0.9
MW-14	Cobalt	UG/L	12	24.7	В	J	0.6
MW-14	Copper	UG/L	32	33.8			1.1
MW-14	Cyanide (Total)	UG/L	10		U		4.7
MW-14	Iron	UG/L	33,000	98,700			18.9
MW-14	Lead	UG/L	20	5.2			1
MW-14	Magnesium	UG/L	26,200	12,700			7.7
MW-14	Manganese	UG/L	831	787			0.1
MW-14	Mercury	UG/L	0.20		U	UJ_	0.05
MW-14	Nickel	UG/L	29	128	•		11
MW-14	Potassium	UG/L	12,500	5,050	Е	J	61.8
MW-14	Selenium	UG/L	2.3	6.6	N	J	3.1
MW-14	Silver	UG/L	1.0		U		0.3
MW-14	Sodium	UG/L	37,900	16,400			212
MW-14	Thallium	UG/L	3.0	10.9			4.1
MW-14	Vanadium	UG/L	34	. 98.2		I	0.6
_MW-14	Zinc	UG/L	63	44.5	*	J	1.1
MW-15	Aluminum	UG/L	487	237			33.2
MW-15	Antimony	UG/L	2.0		Ū		1.8
MW-15	Arsenic	UG/L	59	49.7			2
MW-15	Barium	UG/L	1,470	1,210			0.2
MW-15	Beryllium	UG/L	1.0	0.47	В	J	0.1
MW-15	Cadmium	UG/L	1.0		U		0.5
MW-15	Calcium	UG/L	94,100	52,100			10.7
MW-15	Chromium (Total)	UG/L	13	4.1	В	J	0.9
MW-15	Cobalt	UG/L	5.1	5.5	В	J_	0.6
MW-15	Copper	UG/L	26	3	В	J_	1.1
<u>MW-15</u>	Cyanide (Total)	UG/L	10		Ü	<u> </u>	4.7
_MW-15	Iron	UG/L	7,900	4,180		<u> </u>	18.9
MW-15	Lead	UG/L	2.4		U		1
MW-15	Magnesium	UG/L	93,100	61,700			7.7
MW-15	Manganese	UG/L	534	171			0.1
MW-15	Mercury	UG/L	0.20		U	UJ_	0.05
<u>MW-15</u>	Nickel	UG/L	24	19.8	В	J	1
_MW-15	Potassium	UG/L	122,000	124,000	Е	J_	61.8
MW-15	Selenium	UG/L	2.0	3.1	UN	<u> </u>	3.1
MW-15	Silver	UG/L	1.0		U		0.3
MW-15	Sodium	UG/L	459,000	495,000		<u> </u>	212
MW-15	Thallium	UG/L	3.1		U		4.1
MW-15	Vanadium	UG/L	1.5	1:9	В	J	0.6
MW-15	Zinc	UG/L	44	2.1	В*	J	1.1
MW-18	Aluminum	UG/L	56	13.3	В	U	8.9
MW-18	Antimony	UG/L	2.0	3.3	В	U	1
MW-18	Arsenic	UG/L	2.4		U		1.4
MW-18	Barium	UG/L	35	28.3	В		0.1

BOLD = Exceedance

NA = Not Applicable

#### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
		<u> </u>	during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-18	Beryllium	UG/L	1.0		U		0.1
MW-18	Cadmium	UG/L	1.0	0.94	В	U	0.2
MW-18	Calcium	UG/L	88,500	61,400			8.5
MW-18	Chromium (Total)	UG/L	71	3.7	В		0.5
MW-18	Cobalt	UG/L	1.1	2.5	В	U	0.4_
MW-18	Copper	UG/L	13	3.2	:B	U	0.3
MW-18	Cyanide (Total)	UG/L	10		U		4.7
MW-18	Iron	UG/L	288	53.5	.B		8.8
MW-18	Lead	UG/L	14		U		1
MW-18	Magnesium	UG/L	28,500	20,700			2.7
MW-18	Manganese	UG/L	609	61			0.1
MW-18	Mercury	UG/L	0.20		U		0.05
MW-18	Nickel	UG/L	6.2		U		0.5
MW-18	Potassium	UG/L	3,850	1,930	BE		11.1
MW-18	Selenium	UG/L	3.9		U		1.6
MW-18	Silver	UG/L	1.0		U		0.4
MW-18	Sodium	UG/L	67,700	38,800			101
MW-18	Thallium	UG/L	3.0		U		2.1
MW-18	Vanadium	UG/L	1.5	1.1	В	U	0.4
MW-18	Zinc	UG/L	67		U		0.4
MW-19	Aluminum	UG/L	421	64.6	В	J	33.2
MW-19	Antimony	UG/L	2.0		U		1.8
MW-19	Arsenic	UG/L	27	7.7	В	J	2
MW-19	Barium	UG/L	673	764			0.2
MW-19	Beryllium	UG/L	1.0	0.25	В	J	0.1
MW-19	Cadmium	UG/L	1.0		U		0.5
MW-19	Calcium	UG/L	85,300	84,800			10.7
MW-19	Chromium (Total)	UG/L	10	3.6	В	J	0.9
MW-19	Cobalt	UG/L	2.3	1.4	В	J	0.6
MW-19	Copper	UG/L	184	2.3	В	• Ј	1.1
MW-19	Cyanide (Total)	UG/L	10	5.1	В	J	4.7
MW-19	Iron	UG/L	4,810	2,490		Ì	18.9
MW-19	Lead	UG/L	3.7		U	1	1
MW-19	Magnesium	UG/L	67,700	56,200			7.7
MW-19	Manganese	UG/L	268	206			0.1
MW-19	Mercury	UG/L	0.20		U	UJ	0.05
MW-19	Nickel	UG/L	19	16.2	В	J	1
MW-19	Potassium	UG/L	114,000	92,400	Е	J	61.8
MW-19	Selenium	UG/L	2.0	3.1	UN	1	3.1
MW-19	Silver	UG/L	1.0		U	1	0.3
MW-19	Sodium	UG/L	975,000	938,000		ĺ	212
MW-19	Thallium	UG/L	4.7		U		4.1
MW-19	Vanadium	UG/L	1.6	0.73	В	J	0.6
MW-19	Zinc	UG/L	16	1.1	U*	1	1.1
MW-23	Aluminum	UG/L	2,480	1,120		<del> </del>	33.2
MW-23	Antimony	UG/L	2.0	2:3	В	В	1.8

BOLD = Exceedance

NA = Not Applicable

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect	<u> </u>	Current	Event	
	•		during Baseline	Result	LQ	ÐQ	<b>Detect Limit</b>
MW-23	Arsenic	UG/L	5.3		U		2
MW-23	Barium	UG/L	140	116	В	В	0.2
MW-23	Beryllium	UG/L	1.0	0.37	В	В	0.1
MW-23	Cadmium	UG/L	1.0		U		0.5
MW-23	Calcium	UG/L	86,500	74,200	:		10.7
MW-23	Chromium (Total)	UG/L	: 19	.11			0.9
MW-23	Cobalt	UG/L	4.7	1.1	В	В	0.6
MW-23	Copper	UG/L	- 20	4.7	В	В	1.1
MW-23	Cyanide (Total)	UG/L	10		U	UJ	4.7
MW-23	Iron <sup>-</sup>	UG/L	11,700	8,830			18.9
MW-23	Lead	UG/L	7.7	2.9	В	В	1
MW-23	Magnesium	UG/L	23,800	22,600			7.7
MW-23	Manganese	UG/L	377	295		1	0.1
MW-23	Mercury	UG/L	0.20		U	UJ	0.05
MW-23	Nickel	UG/L	20	10.6	В	В	1
MW-23	Potassium	UG/L	4,350	2,220	В	В	61.8
MW-23	Selenium	UG/L	2.0		U		3.1
MW-23	Silver	UG/L	1.0		U		0.3
MW-23	Sodium	UG/L	75,300	64,200			212
MW-23	Thallium	UG/L	3.0		U		4.1
MW-23	Vanadium	UG/L	7.1	3.3	В	В	0.6
MW-23	Zinc	UG/L	33	8.6	В	J	1.1
MW-24	Aluminum	UG/L	14,800	157	В	· B	33.2
MW-24	Antimony	UG/L	2.0	2.003.7222	В	B.	1.8
MW-24	Arsenic	UG/L	10	·	U		2
MW-24	Barium	UG/L	386	199	В	В	0.2
MW-24	Beryllium	UG/L	1.6	0.18	В	B	0.1
MW-24	Cadmium	UG/L	1.0	0.84	В	В	0.5
MW-24	Calcium	UG/L	170,000	110,000		]-	10.7
MW-24	Chromium (Total)	UG/L	143	5.1	В	В	0.9
MW-24	Cobalt	UG/L	14		U		0.6
MW-24	Copper	UG/L	94	2.9	В	В	1.1
MW-24	Cyanide (Total)	UG/L	10	8.1	В	JB	4.7
MW-24	Iron	UG/L	51,500	4,980			18.9
MW-24	Lead	UG/L	25		U		1
MW-24	Magnesium	UG/L	51,800	28,700			7.7
MW-24	Manganese	UG/L	696	231			0.1
MW-24	Mercury	UG/L	0.20		U	UJ	0.05
MW-24	Nickel	UG/L	96	4	В	В	1
MW-24	Potassium	UG/L	9,750	1,130	В	В	61.8
MW-24	Selenium	UG/L	2.6		U		3.1
MW-24	Silver	UG/L	1.0		U		0.3
MW-24	Sodium	UG/L	95,600	106,000		1	212
MW-24	Thallium	UG/L	4.0		U		4.1
MW-24	Vanadium	UG/L	30	0.93	В	В	0.6
MW-24	Zinc	UG/L	97	1.5	В	J	1.1

BOEDS = Exceedance

NA = Not Applicable

#### American Chemical Services NPL Site Griffith, Indiana

MW-28 Aluminum MW-28 Arsenic MW-28 Barium MW-28 Beryllium MW-28 Cadmium MW-28 Calcium MW-28 Chromium (Total) MW-28 Cobalt MW-28 Copper MW-28 Cyanide (Total) MW-28 Iron MW-28 Iron MW-28 Magnesium MW-28 Magnese MW-28 Mercury MW-28 Nickel MW-28 Potassium MW-28 Selenium MW-28 Silver	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	during Baseline  2,850 2.0 4.9 131 1.1 1.0 96,800 108 6.4 55 10 7,090 12 41,400 169 0.20 74 3,580	Result 265  125  0.6 83,500 32.9 3.1 12.9  2,900 4.2 40,700 74.5	U U B B B B U U	U U U	Detect Limit  8.9  1  1.4  0.1  0.1  0.2  8.5  0.5  0.4  0.3  4.7  8.8  1  2.7  0.1
MW-28 Arsenic MW-28 Barium MW-28 Beryllium MW-28 Cadmium MW-28 Calcium MW-28 Chromium (Total) MW-28 Cobalt MW-28 Copper MW-28 Cyanide (Total) MW-28 Iron MW-28 Iron MW-28 Lead MW-28 Magnesium MW-28 Mercury MW-28 Nickel MW-28 Potassium MW-28 Selenium	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	2.0 4.9 131 1.1 1.0 96,800 108 6.4 55 10 7,090 12 41,400 169 0.20 74	0.6 83,500 32.9 3.1 12.9 2,900 4.2 40,700 74.5	U B U B B U	U	1 1.4 0.1 0.1 0.2 8.5 0.5 0.4 0.3 4.7 8.8 1 2.7
MW-28 Barium MW-28 Beryllium MW-28 Cadmium MW-28 Calcium MW-28 Chromium (Total) MW-28 Cobalt MW-28 Copper MW-28 Cyanide (Total) MW-28 Iron MW-28 Iron MW-28 Lead MW-28 Magnesium MW-28 Mercury MW-28 Nickel MW-28 Potassium MW-28 Selenium	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	4.9 131 1.1 1.0 96,800 108 6.4 55 10 7,090 12 41,400 169 0.20 74	0.6 83,500 32.9 3.1 12.9 2,900 4.2 40,700 74.5	U B U B B U	U U	0.1 0.2 8.5 0.5 0.4 0.3 4.7 8.8 1 2.7 0.1
MW-28 Berjum MW-28 Cadmium MW-28 Calcium MW-28 Chromium (Total) MW-28 Cobalt MW-28 Copper MW-28 Cyanide (Total) MW-28 Iron MW-28 Lead MW-28 Magnesium MW-28 Mercury MW-28 Nickel MW-28 Potassium MW-28 Selenium	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	131 1.1 1.0 96,800 108 6.4 55 10 7,090 12 41,400 169 0.20 74	0.6 83,500 32.9 3.1 12.9 2,900 4.2 40,700 74.5	B U B B U	U U	0.1 0.2 8.5 0.5 0.4 0.3 4.7 8.8 1 2.7 0.1
MW-28 Beryllium MW-28 Cadmium MW-28 Calcium MW-28 Chromium (Total) MW-28 Cobalt MW-28 Copper MW-28 Cyanide (Total) MW-28 Iron MW-28 Lead MW-28 Magnesium MW-28 Manganese MW-28 Mercury MW-28 Nickel MW-28 Potassium MW-28 Selenium	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	1.1 1.0 96,800 108 6.4 55 10 7,090 12 41,400 169 0.20	0.6 83,500 32.9 3.1 12.9 2,900 4.2 40,700 74.5	U B B B U U	U U	0.1 0.2 8.5 0.5 0.4 0.3 4.7 8.8 1 2.7 0.1
MW-28 Cadmium MW-28 Calcium MW-28 Chromium (Total) MW-28 Cobalt MW-28 Copper MW-28 Cyanide (Total) MW-28 Iron MW-28 Lead MW-28 Magnesium MW-28 Mercury MW-28 Nickel MW-28 Potassium MW-28 Selenium	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	1.0 96,800 108 6.4 55 10 7,090 12 41,400 169 0.20 74	83,500 32.9 3.1 12.9 2,900 4.2 40,700 74.5	B B B U	U U	0.1 0.2 8.5 0.5 0.4 0.3 4.7 8.8 1 2.7 0.1
MW-28 Calcium MW-28 Chromium (Total) MW-28 Cobalt MW-28 Copper MW-28 Cyanide (Total) MW-28 Iron MW-28 Lead MW-28 Magnesium MW-28 Mercury MW-28 Nickel MW-28 Potassium MW-28 Selenium	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	96,800 108 6.4 55 10 7,090 12 41,400 169 0.20 74	83,500 32.9 3.1 12.9 2,900 4.2 40,700 74.5	B B U	U U	0.2 8.5 0.5 0.4 0.3 4.7 8.8 1 2.7 0.1
MW-28 Calcium MW-28 Chromium (Total) MW-28 Cobalt MW-28 Copper MW-28 Cyanide (Total) MW-28 Iron MW-28 Lead MW-28 Magnesium MW-28 Mercury MW-28 Nickel MW-28 Potassium MW-28 Selenium	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	108 6.4 55 10 7,090 12 41,400 169 0.20 74	83,500 32.9 3.1 12.9 2,900 4.2 40,700 74.5	B U	U	8.5 0.5 0.4 0.3 4.7 8.8 1 2.7 0.1
MW-28 Cobalt  MW-28 Copper  MW-28 Cyanide (Total)  MW-28 Iron  MW-28 Lead  MW-28 Magnesium  MW-28 Mercury  MW-28 Nickel  MW-28 Potassium  MW-28 Selenium	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	108 6.4 55 10 7,090 12 41,400 169 0.20 74	32.9 3.1 12.9 2,900 4.2 40,700 74.5	B U	U	0.5 0.4 0.3 4.7 8.8 1 2.7 0.1
MW-28 Cobalt  MW-28 Copper  MW-28 Cyanide (Total)  MW-28 Iron  MW-28 Lead  MW-28 Magnesium  MW-28 Mercury  MW-28 Nickel  MW-28 Potassium  MW-28 Selenium	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	55 10 7,090 12 41,400 169 0.20 74	2,900 4.2 40,700 74.5	B U	U	0.4 0.3 4.7 8.8 1 2.7 0.1
MW-28 Copper MW-28 Cyanide (Total) MW-28 Iron MW-28 Lead MW-28 Magnesium MW-28 Manganese MW-28 Mercury MW-28 Nickel MW-28 Potassium MW-28 Selenium	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	10 7,090 12 41,400 169 0.20 74	2,900 4.2 40,700 74.5	U		0.3 4.7 8.8 1 2.7 0.1
MW-28 Cyanide (Total) MW-28 Iron MW-28 Lead MW-28 Magnesium MW-28 Manganese MW-28 Mercury MW-28 Nickel MW-28 Potassium MW-28 Selenium	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	10 7,090 12 41,400 169 0.20 74	2,900 4.2 40,700 74.5	U	U	4.7 8.8 1 2.7 0.1
MW-28 Iron MW-28 Lead MW-28 Magnesium MW-28 Manganese MW-28 Mercury MW-28 Nickel MW-28 Potassium MW-28 Selenium	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	7,090 12 41,400 169 0.20 74	4.2 40,700 74.5		U	8.8 1 2.7 0.1
MW-28 Lead MW-28 Magnesium MW-28 Manganese MW-28 Mercury MW-28 Nickel MW-28 Potassium MW-28 Selenium	UG/L UG/L UG/L UG/L UG/L UG/L UG/L	12 41,400 169 0.20 74	4.2 40,700 74.5		U	1 2.7 0.1
MW-28 Magnesium MW-28 Manganese MW-28 Mercury MW-28 Nickel MW-28 Potassium MW-28 Selenium	UG/L UG/L UG/L UG/L UG/L	41,400 169 0.20 74	40,700 74.5			0.1
MW-28 Manganese MW-28 Mercury MW-28 Nickel MW-28 Potassium MW-28 Selenium	UG/L UG/L UG/L UG/L	169 0.20 74	74.5			0.1
MW-28 Mercury MW-28 Nickel MW-28 Potassium MW-28 Selenium	UG/L UG/L UG/L	0.20 74	26			
MW-28 Nickel MW-28 Potassium MW-28 Selenium	UG/L UG/L	74	<del></del>			0.05
MW-28 Potassium MW-28 Selenium	UG/L		<del></del>	В		0.5
MW-28 Selenium			1,730	BE		11.1
		2.0	1	U	1	1.6
	UG/L	1.0		U ·		0.4
MW-28 Sodium	UG/L	16,400	\$219,100 N22		<del>                                     </del>	101
MW-28 Thallium	UG/L	3.0		U	<del> </del>	2.1
MW-28 Vanadium	UG/L	7.1		U	i	0.4
MW-28 Zinc	UG/L	49	4.6	В	U	0.4
MW-29 Aluminum	UG/L	635	231		<b>†</b>	33.2
MW-29 Antimony	UG/L	2.0	60.2		"	1.8
MW-29 Arsenic	UG/L	. 2.9		U	<u> </u>	2
MW-29 Barium	UG/L	140	116	В	J	0.2
MW-29 Beryllium	UG/L	1.0	0.29	В	J	0.1
MW-29 Cadmium	UG/L	1.0	0.6	В	J	0.5
MW-29 Calcium	UG/L	115,000	85,000	-		10.7
MW-29 Chromium (Total)	UG/L	24	30:16		1	0.9
MW-29 Cobalt	UG/L	2.6	1.1	В	J	0.6
MW-29 Copper	UG/L	15	8.1	В	J	1.1
MW-29 Cyanide (Total)	UG/L	10		Ū	UJ	4.7
MW-29 Iron	UG/L	7,410	4,430		<del></del>	18.9
MW-29 Lead	UG/L	2.4	1,750	U	†	1
MW-29 Magnesium	UG/L	55,700	41,700		<del> </del>	7.7
MW-29 Manganese	UG/L	218	66.7		<b> </b>	0.1
MW-29 Mercury	UG/L	0.20	30.7	U	UJ	0.05
MW-29 Nickel	UG/L	31	51		<del>                                     </del>	1
MW-29 Potassium	UG/L	7,040	2,760	В	J	61.8
MW-29 Selenium	UG/L	2.0	2,700	U	<del>                                     </del>	3.1
MW-29 Silver	UG/L	1.0	0.45	В	J	0.3
MW-29 Sodium	UG/L	76,100	74,800		<del>                                     </del>	212
MW-29 Thallium	UG/L	3.0	77,000	U	<b> </b>	4.1

BOED = Exceedance

NA = Not Applicable

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect	1 .	Current	Event	
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-29	Vanadium	UG/L	1.8	1.2	В	J	0.6
MW-29	Zinc	UG/L	22	5.6	В	J	1.1
MW-30	Aluminum	UG/L	1,830	109	В	J	33.2
MW-30	Antimony	UG/L	2.0	2.6	В	J	1.8
MW-30	Arsenic	UG/L	4.3		U		2
MW-30	Barium	UG/L	210	228			0.2
MW-30	Beryllium	UG/L	1.0	0.24	В	J	0.1
MW-30	Cadmium '	UG/L	1.0	0.56	В	J	0.5
MW-30	Calcium	UG/L	170,000	89,400		ı	10.7
MW-30	Chromium (Total)	UG/L	50	3.9	В	J	0.9
MW-30	Cobalt	UG/L	15	5.3	В.	J	0.6
MW-30	Copper	UG/L	40	4.4	В	J	1.1
MW-30	Cyanide (Total)	UG/L	10		U	UJ	4.7
MW-30	Iron	UG/L	8,590	1,600		`	18.9
MW-30	Lead	UG/L	8.0		U		1
MW-30	Magnesium	UG/L	51,000	47,100			7.7
MW-30	Manganese	UG/L	240	59.9			0.1
MW-30	Mercury	UG/L	0.20		U	UJ	0.05
MW-30	Nickel	UG/L	59	10.6	В	J	1
MW-30	Potassium	UG/L	4,980	2,230	В	J	61.8
MW-30	Selenium	. UG/L	2.0		U		3.1
MW-30	Silver	UG/L	1.0		U		0.3
MW-30	Sodium	UG/L	40,900	49,600			212
MW-30	Thallium	UG/L	3.0		U		4.1
MW-30	Vanadium	UG/L	3.8		U		0.6
MW-30	Zinc	UG/L	40	2.3	В	J	1.1
MW-31	Aluminum	UG/L	1,890	34.5	В	U	8.9
MW-31	Antimony	UG/L	2.7		U		1
MW-31	Arsenic	UG/L	7.5	3.5	В.	U	1.4
MW-31	Barium	UG/L	246	3272			0.1
MW-31	Beryllium	UG/L	1.0		U		0.1
MW-31	Cadmium	UG/L	1.0	0.53	В		0.2
MW-31	Calcium	UG/L	96,400	88,200			8.5
MW-31	Chromium (Total)	UG/L	89	8	В		0.5
MW-31	Cobalt	UG/L	4.3	1.4	В	U	0.4
MW-31	Copper	UG/L	52	15	В		0.3
MW-31	Cyanide (Total)	UG/L	10		U		4.7
MW-31	Iron	UG/L	6,230	2,900			8.8
MW-31	Lead	UG/L	8.9	2.6	В	U	1
MW-31	Magnesium	UG/L	35,100	35,600			2.7
MW-31	Manganese	UG/L	174	89.2			0.1
MW-31	Mercury	UG/L	0.20		U	1	_ 0.05
MW-31	Nickel	UG/L	66	8.2	В	U	0.5
MW-31	Potassium	UG/L	3,870	1,480	BE		11.1
MW-31	Selenium	UG/L	2.0	,,,,,,,	U		1.6
MW-31	Silver	UG/L	1.0	1	U	1	0.4

**BOLD** = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-31_	Sodium	UG/L	19,800	21,700		<u> </u>	101
MW-31_	Thallium	UG/L	3.0		U	<u> </u>	2.1
MW-31	Vanadium	UG/L	4.3		U		0.4
MW-31_	Zinc	UG/L	38	1.3	B	U	0.4
MW-32	Aluminum	UG/L	10,500	27.7	В	U	8.9
MW-32	Antimony	UG/L	2.0		U		1
MW-32	Arsenic	UG/L	4.9		U		1.4
MW-32	Barium	UG/L	258	243			0.1
MW-32	Beryllium	UG/L	1.5	0.23	В	U	0.1
MW-32	Cadmium	UG/L	1.0	0.56	В		0.2
MW-32	Calcium	UG/L	77,700	71,100			8.5
MW-32	Chromium (Total)	UG/L	149	3	В		0.5
MW-32	Cobalt	UG/L	3.2	0.92	В	U	0.4
MW-32	Copper	UG/L	30	1.7	В	· U	0.3
MW-32	Cyanide (Total)	UG/L	10		U		4.7
MW-32	Iron	UG/L	14,600	2,690			8.8
MW-32	Lead	UG/L	11	1.2	В	U	1
MW-32	Magnesium	UG/L	48,000	49300		· -	2.7
MW-32	Manganese	UG/L	219	29.3			0.1
MW-32	Mercury	UG/L	0.20		U		0.05
MW-32	Nickel	UG/L	96	0.57	В	U	0.5
MW-32	Potassium	UG/L	5,560	3,300	BE		11.1
MW-32	Selenium	UG/L	2.0		U		1.6
MW-32	Silver	UG/L	1.0		U		0.4
MW-32	Sodium	UG/L	55,000	39,500			101
MW-32	Thallium	UG/L	3.0	·	U		2.1
MW-32	Vanadium	UG/L	5.6		Ū		0.4
MW-32	Zinc	UG/L	47		U		0.4
MW-33	Aluminum	UG/L	195	90.2	В	J	33.2
MW-33	Antimony	UG/L	2.0	2.3	В	J	1.8
MW-33	Arsenic	UG/L	23	16.7			2
MW-33	Barium	UG/L	1,340	1,060			0.2
MW-33	Beryllium	UG/L	1.0	0.4	В	J	0.1
MW-33	Cadmium	UG/L	1.4	× 1.53423	В	J	0.5
MW-33	Calcium	UG/L	313,000	242,000			10.7
MW-33	Chromium (Total)	UG/L	15	5	В	J	0.9
MW-33	Cobalt	UG/L	6.1	2.9	В	J	0.6
MW-33	Copper	UG/L	15	4.7	В	J	1.1
MW-33	Cyanide (Total)	UG/L	10		Ū	UJ	4.7
MW-33	Iron	UG/L	28,500	22,400		1	18.9
MW-33	Lead	UG/L	1.5		U	1	1
MW-33	Magnesium	UG/L	70,500	54,900		1	7.7
MW-33	Manganese	UG/L	686	75.4			0.1
MW-33	Mercury	UG/L	0.20	, , , , , ,	U	UJ	0.05
MW-33	Nickel	UG/L	48	9.2	В	J	1 0.03
MW-33	Potassium	UG/L	15,800	10,500		<del>                                     </del>	61.8

BOLD = Exceedance

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-33	Selenium	UG/L	2.0		U		3.1
MW-33	Silver	UG/L	1.0	0.46	В	J	0.3
MW-33	Sodium	UG/L	195,000	170,000			212
MW-33	Thallium	UG/L	3.8		U		4.1
MW-33	Vanadium	UG/L:	1.8	0.94	В	J	0.6
MW-33	Zinc	UG/L	27	1.4	В	J	1.1
MW-34	Aluminum	UG/L	1,140	119	В	J	. 33.2
MW-34	Antimony	UG/L	2.1		U		1.8
MW-34	Arsenic	UG/L	2.8		U		2
MW-34	Barium	UG/L	176	187	В	J	0.2
MW-34	Beryllium	UG/L	1.0		Ü		0.1
MW-34	Cadmium	UG/L	1.0	0.58	В	J	0.5
MW-34	Calcium	UG/L	85,700	77,600			10.7
MW-34	Chromium (Total)	UG/L	38	13.8			0.9
MW-34	Cobalt	UG/L	2.4	0.7	В	JB	0,6
MW-34	Copper	UG/L	24	7.7	В	JB	1.1
MW-34	Iron	UG/L	4,360	3,070			18.9
MW-34	Lead	UG/L	3.8	1.1	В	J	1
MW-34	Magnesium	UG/L	51,000	53,400			7.7
MW-34	Manganese	UG/L	138	19.6			0.1
MW-34	Mercury	UG/L	0.20		U	UJ	0.02
MW-34	Nickel	UG/L	34	12.3	В	J	1
MW-34	Potassium	UG/L	5,810	3,820	BE	JB_	61.8
MW-34	Selenium	UG/L	2.0		Ü		3.1
MW-34	Silver	UG/L	1.0		U		0.3
MW-34	Sodium	UG/L	37,200	35,100			212
MW-34	Thallium	UG/L	3:0		U		4.1
MW-34	Vanadium	UG/L	1.1		U		0.6
MW-34	Zinc	UG/L	30	5.6	В	J	1.1
MW-37	Aluminum	UG/L	1,410	388	•		33.2
MW-37	Antimony	UG/L	2.0		U		1.8
MW-37	Arsenic	UG/L	2.5		U		2
MW-37	Barium	UG/L	34	24.2	В	J	0.2
MW-37	Beryllium	UG/L	1.0	0.37	В	J	0.1
MW-37	Cadmium	UG/L	1.0		U		0.5
MW-37	Calcium	UG/L	85,600	74,400			_10.7
MW-37	Chromium (Total)	UG/L	10	3.7	В	J	0.9
MW-37	Cobalt	UG/L	10	0.99	В	J	0.6
MW-37	Copper	UG/L	21	7.1	В	J	1.1
MW-37	Cyanide (Total)	UG/L	10	6.8	В	J	4.7
MW-37	Iron	UG/L	9,665	4,870			18.9
MW-37	Lead	UG/L	8.6	1.3	В	J	1
MW-37	Magnesium	UG/L	26,850	23,100			7.7
MW-37	Manganese	UG/L	694	330			0.1
MW-37	Mercury	UG/L	0.20		U	UJ	0.05
MW-37	Nickel	UG/L	20	8.2	В	J	1

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**BOLD** = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

MW-37   Potassium   UG/L   2,025   1,120   B   J   61,8   MW-37   Selenium   UG/L   2,02   U   U   3,3   MW-37   Silver   UG/L   10   U   0,3   MW-37   Solium   UG/L   17,500   15,200   U   4,1   MW-37   Thallium   UG/L   3,0   U   4,1   MW-37   Thallium   UG/L   20   1.7   B   J   0,6   MW-37   Vanadium   UG/L   20   1.7   B   J   0,6   MW-37   Zinc   UG/L   23   2.7   B   J   1,1   MW-38   Aluminum   UG/L   1,280   68.4   B   U   8,9   MW-38   Antimony   UG/L   2.0   1.3   B   U   1   MW-38   Antimony   UG/L   2.0   1.3   B   U   1   MW-38   Assenic   UG/L   5.6   U   1,4   MW-38   Barium   UG/L   5.6   U   0,1   MW-38   Barium   UG/L   1.0   U   0,1   MW-38   Cadmium   UG/L   1.0   U   0,1   MW-38   Cadmium   UG/L   1.0   U   0,1   MW-38   Cadmium   UG/L   1.0   U   0,1   MW-38   Cadmium   UG/L   1.0   U   0,1   MW-38   Cadmium   UG/L   1.0   U   0,1   MW-38   Cobalt   UG/L   1.1   UG/L   1.2   2.3   B   U   0,2   MW-38   Cobalt   UG/L   1.0   5.4   B   U   0,3   MW-38   Cobalt   UG/L   1.0   5.4   B   U   0,3   MW-38   Cobalt   UG/L   1.0   UG/L   1.0   U   4.7   MW-38   Cobalt   UG/L   1.0   UG/L   1.0   U   4.7   MW-38   Magnesium   UG/L   1.0   UG/L   1.0   U   4.7   MW-38   Magnesium   UG/L   1.0   UG/L   1.0   U   4.7   MW-38   Magnesium   UG/L   1.0   U   4.7   MW-38   Magnesium   UG/L   1.0   U   0,1   MW-38   Magnesium   UG/L   22,000   21,500   U   0,05   MW-38   Selenium   UG/L   22,00   U   0,05   MW-38   Selenium   UG/L   20,00   U   0,05   MW-38   Selenium   UG/L   20,00   U   0,05   MW-38   Selenium   UG/L   20,00   U   0,05   MW-38   Selenium   UG/L   20,00   U   0,05   MW-38   Selenium   UG/L   20,00   U   0,05   MW-38   Selenium   UG/L   20,00   U   0,05   MW-38   Selenium   UG/L   20,00   U   0,05   MW-39   National   UG/L   20,00   U   0,05   MW-39   Aluminum   UG/L   20,00   U   0,05   MW-39   Aluminum   UG/L   20,00   U   0,05   MW-39   Cadmium   UG/L   20,00   U   0,04   MW-39   Cadmium   UG/L   20,00   U   0,04   MW-39   Cadmium   UG/L   20,00   U   0,04   MW-39   Cadmium   UG/L   2	Well	Analyte	Units	Highest Detect	Event	nt		
MW-37         Selenium         UG/L         2.0         U         3.1           MW-37         Silver         UG/L         10         U         0.3           MW-37         Thallium         UG/L         17,500         15,200         212           MW-37         Thallium         UG/L         3.0         U         4,1           MW-37         Vanadium         UG/L         20         1.7         B         J         0.6           MW-37         Zinc         UG/L         20         1.7         B         J         0.6           MW-38         Aluminum         UG/L         2.0         1.3         B         U         1           MW-38         Antimony         UG/L         2.0         1.3         B         U         1           MW-38         Arsenic         UG/L         5.6         U         1.4         MW-38         Beryllium         UG/L         1.0         0.45         B         U         0.2           MW-38         Beryllium         UG/L         1.0         0.45         B         U         0.2           MW-38         Calcium         UG/L         16.3,500         58,500         B         5.5<				during Baseline	Result	LQ	DQ	Detect Limit
MW-37         Silver         UG/L         10         U         0,3           MW-37         Sodium         UG/L         17,500         15,200         212           MW-37         Vanadium         UG/L         20         1.7         B         J         0,6           MW-37         Vanadium         UG/L         23         2.7         B         J         1,6           MW-37         Zine         UG/L         23         2.7         B         J         1,1           MW-38         Antimony         UG/L         2.0         1.3         B         U         1,1           MW-38         Antimony         UG/L         5.6         U         1,4         MW-38         Barchium         UG/L         5.6         U         1,4         MW-38         Beryllium         UG/L         5.6         U         1,4         MW-38         Cadmium         UG/L         1.0         0.45         B         U         0,1           MW-38         Cadmium         UG/L         1.0         0.45         B         U         0,2           MW-38         Cadmium         UG/L         10         5.4         B         U         0,2	MW-37	Potassium	UG/L	2,025	1,120		J	61.8
MW-37         Sodium         UG/L         17,500         15,200         212           MW-37         Thallium         UG/L         3.0         U         4,1           MW-37         Zine         UG/L         20         1.7         B         J         0.6           MW-37         Zine         UG/L         23         2.7         B         J         1.1           MW-38         Aluminum         UG/L         2.0         1.3         B         U         1           MW-38         Antimony         UG/L         5.6         U         1.4         MW-38         Barium         UG/L         5.6         U         1.4           MW-38         Barium         UG/L         5.6         U         U         0.1           MW-38         Cadmium         UG/L         1.0         0.45         B         U         0.2           MW-38         Calcium         UG/L         63,500         58,500         8         8.5           MW-38         Cobalt         UG/L         10         5.4         B         U         0.2           MW-38         Cobalt         UG/L         16         13.4         B         U	MW-37	Selenium	UG/L	2.0				3.1
MW-37         Thallium         UG/L         3.0         U         4,1           MW-37         Vanadium         UG/L         20         1.7         B         J         0,6           MW-37         Zinc         UG/L         20         1.7         B         J         0,1           MW-38         Aluminum         UG/L         1,280         68.4         B         U         8,9           MW-38         Antimony         UG/L         2.0         1.3         B         U         1           MW-38         Arimmony         UG/L         5.6         U         1.4         1.4           MW-38         Beryllium         UG/L         1.0         U         0.1         0.1           MW-38         Cadmium         UG/L         1.0         U         0.1         0.1           MW-38         Calcium         UG/L         1.0         0.45         B         U         0.2           MW-38         Calcium         UG/L         10         5.4         B         U         0.2           MW-38         Chonium (Total)         UG/L         10         5.4         B         U         0.4           MW-38         <	MW-37	Silver	UG/L	10		U		0.3
MW-37         Vanadium         UG/L         20         1.7'         B         J         0.6           MW-37         Zinc         UG/L         23         2.7         B         J         1.1           MW-38         Antimony         UG/L         2.0         1.3         B         U         1           MW-38         Arsenic         UG/L         5.6         U         1.4         MW-38         Bersic         UG/L         5.6         U         1.4         MW-38         Beryllium         UG/L         5.6         U         1.4         MW-38         Beryllium         UG/L         1.0         0         U         0.1         MW-38         Beryllium         UG/L         1.0         0.45         B         U         0.2         MW-38         Cadrium         UG/L         1.0         0.45         B         U         0.2         MW-38         Calcium         UG/L         10         0.4         MW-38         Cobalt         UG/L         10         5.4         B         U         0.2         MW-38         Cobalt         UG/L         10         5.4         B         U         0.4         MW-38         Cobalt         UG/L         10         1.3         B	MW-37	Sodium	UG/L	17,500	15,200			212
MW-37         Zinc         UG/L         23         2.7         B         J.         1.1           MW-38         Aluminum         UG/L         1,280         68.4         B         U         8,9           MW-38         Antimony         UG/L         5.6         U         1.4         1.4           MW-38         Barium         UG/L         5.6         U         0         1.4           MW-38         Barium         UG/L         5.6         33         B         0.1           MW-38         Cadmium         UG/L         1.0         U         0.1           MW-38         Cadmium         UG/L         1.0         0.45         B         U         0.2           MW-38         Calcium         UG/L         1.0         0.45         B         U         0.2           MW-38         Chobalt         UG/L         1.2         2.3         B         0.5           MW-38         Cobalt         UG/L         1.0         5.4         B         U         0.4           MW-38         Copper         UG/L         1.0         U         4.7         4.7           MW-38         Iron         UG/L         1.0<	MW-37	Thallium	UG/L	3.0		U		4.1
MW-38         Aluminum         UG/L         1,280         68.4         B         U         8,9           MW-38         Antimony         UG/L         2.0         1.3         B         U         1           MW-38         Arsenic         UG/L         5.6         U         1.4         MW-38         Barum         UG/L         5.6         U         1.4         MW-38         Barum         UG/L         5.4         33         B         0,1         MW-38         Cadmium         UG/L         1.0         U         0.1         MW-38         Cadmium         UG/L         1.0         0.45         B         U         0.2         MW-38         Calcium         UG/L         1.0         0.45         B         U         0.2         MW-38         Calcium         UG/L         1.0         0.4         3.5         MW-38         Chromium (Total)         UG/L         1.2         2.3         B         0.5         MW-38         Chromium (Total)         UG/L         1.0         5.4         B         U         0.4         4.7         MW-38         Copare         UG/L         1.0         0.3         MW-38         Lon         0.3         MW-38         Lon         0.3         MW-38         <	MW-37	Vanadium	UG/L	20	1.7	В	J	0.6
MW-38         Antimony         UG/L         2.0         1.3         B         U         1           MW-38         Arsenic         UG/L         5.6         U         1.4         MW-38         Barium         UG/L         5.6         U         1.1         MW-38         Beryllium         UG/L         5.4         33         B         0.1         0.2         0.1         0.2         0.1         0.2         0.2         0.1         0.2	MW-37	Zinc	UG/L	23	2.7	В	· J .	1.1
MW-38         Arsenic         UG/L         5.6         U         1.4           MW-38         Barium         UG/L         54         33         B         0.1           MW-38         Beryllium         UG/L         1.0         U         0.1           MW-38         Cadmium         UG/L         1.0         0.45         B         U         0.2           MW-38         Calcium         UG/L         63,500         58,500         8.5           MW-38         Chomium (Total)         UG/L         12         2.3         B         0.5           MW-38         Cobalt         UG/L         10         5.4         B         U         0.4           MW-38         Copper         UG/L         10         5.4         B         U         0.3           MW-38         Iron         UG/L         10         U         4.7         M         4.7           MW-38         Iron         UG/L         16,200         2,960         8.8         8           MW-38         Magnesium         UG/L         10         1.3         B         U         1           MW-38         Magnesium         UG/L         22,000         21,500	MW-38	Aluminum	UG/L	1,280	68.4	В	U	8.9
MW-38         Barjum         UG/L         54         33         B         0,1           MW-38         Beryllium         UG/L         1.0         U         0.1           MW-38         Cadmium         UG/L         1.0         0.45         B         U         0.2           MW-38         Calcium         UG/L         63,500         58,500         8.5           MW-38         Chromium (Total)         UG/L         12         2.3         B         0,5           MW-38         Cobalt         UG/L         10         5.4         B         U         0.4           MW-38         Copper         UG/L         10         U         4.7         MW-38         U         0.3           MW-38         Cyanide (Total)         UG/L         10         U         4.7         MW-38         Iron         UG/L         10         U         4.7           MW-38         Iron         UG/L         10         1.3         B         U         1           MW-38         Magnesium         UG/L         10         1.3         B         U         1           MW-38         Mercury         UG/L         1.270         720         0.1 </td <td>MW-38</td> <td>Antimony</td> <td>UG/L</td> <td>2.0</td> <td>1.3</td> <td>В</td> <td>U</td> <td>1</td>	MW-38	Antimony	UG/L	2.0	1.3	В	U	1
MW-38         Beryllium         UG/L         1.0         0.45         B         U         0.2           MW-38         Calcium         UG/L         63,500         58,500         8.5           MW-38         Chromium (Total)         UG/L         12         2.3         B         0.5           MW-38         Cobalt         UG/L         10         5.4         B         U         0.4           MW-38         Copper         UG/L         10         5.4         B         U         0.4           MW-38         Copper         UG/L         10         U         4.7         MW-38         Iron         UG/L         10         U         4.7           MW-38         Iron         UG/L         10         U         4.7         MW-38         Iron         UG/L         10         1.3         B         U         1         MW-38         Magnesium         UG/L         10         1.3         B         U         1         MW-38         Magnesium         UG/L         22,000         21,500         2.7         MW-38         Magnesium         UG/L         20.00         U         0.0         0.1         MW-38         Mercury         UG/L         0.2	MW-38	Arsenic	UG/L	5.6		U		1.4
MW-38         Beryllium         UG/L         1.0         0.45         B         U         0.2           MW-38         Cadmium         UG/L         63,500         58,500         8.5           MW-38         Chromium (Total)         UG/L         12         2.3         B         0.5           MW-38         Cobalt         UG/L         10         5.4         B         U         0,4           MW-38         Copper         UG/L         10         5.4         B         U         0,3           MW-38         Copanie (Total)         UG/L         10         U         4.7           MW-38         Iron         UG/L         10         U         4.7           MW-38         Iron         UG/L         10         1.3         B         U         1           MW-38         Iron         UG/L         10         1.3         B         U         1           MW-38         Magnesium         UG/L         10         1.3         B         U         1           MW-38         Magnesium         UG/L         22,000         21,500         2.7         0.1           MW-38         Mercury         UG/L         0.20 </td <td>MW-38</td> <td>Barium</td> <td>UG/L</td> <td>54</td> <td>33</td> <td>В</td> <td></td> <td>0.1</td>	MW-38	Barium	UG/L	54	33	В		0.1
MW-38         Cadium         UG/L         63,500         58,500         8.5           MW-38         Chromium (Total)         UG/L         63,500         58,500         8.5           MW-38         Chromium (Total)         UG/L         12         2.3         B         0,5           MW-38         Cobalt         UG/L         10         5.4         B         U         0,4           MW-38         Copper         UG/L         14         13.4         B         U         0,3           MW-38         Cyanide (Total)         UG/L         10         U         4.7         MW-38         Iron         UG/L         16,200         2,960         8.8         8           MW-38         Iron         UG/L         16,200         2,960         8.8         8	MW-38	Beryllium	UG/L	1.0		U		
MW-38         Calcium         UG/L         63,500         58,500         8,5           MW-38         Chromium (Total)         UG/L         12         2.3         B         0,5           MW-38         Cobalt         UG/L         10         5.4         B         U         0,3           MW-38         Copper         UG/L         14         13.4         B         U         0,3           MW-38         Copper         UG/L         10         U         4.7           MW-38         Iron         UG/L         16,200         2,960         8.8           MW-38         Iron         UG/L         10         1.3         B         U         1           MW-38         Lead         UG/L         10         1.3         B         U         1           MW-38         Magnesium         UG/L         22,000         21,500         2.7         0.1           MW-38         Mercury         UG/L         0.20         U         0.05         0.1           MW-38         Mickel         UG/L         0.20         U         0.5         0.5           MW-38         Nickel         UG/L         20         U         0.5 <td>MW-38</td> <td>Cadmium</td> <td>UG/L</td> <td>1.0</td> <td>0.45</td> <td>В</td> <td>U</td> <td></td>	MW-38	Cadmium	UG/L	1.0	0.45	В	U	
MW-38         Chromium (Total)         UG/L         12         2.3         B         0.5           MW-38         Cobalt         UG/L         10         5.4         B         U         0.4           MW-38         Copper         UG/L         14         13.4         B         U         0.3           MW-38         Cyanide (Total)         UG/L         10         U         4.7           MW-38         Iron         UG/L         16,200         2,960         8.8           MW-38         Iron         UG/L         10         1.3         B         U         1           MW-38         Magnesium         UG/L         122,000         21,500         2.7         0.1           MW-38         Magnesium         UG/L         1,270         720         0.1         0.1           MW-38         Mercury         UG/L         1,270         720         0.1         0.0           MW-38         Nickel         UG/L         0.20         U         0.05           MW-38         Potassium         UG/L         22         11.7         B         U         0.5           MW-38         Selenium         UG/L         2.0         U </td <td></td> <td>Calcium</td> <td>UG/L</td> <td>63,500</td> <td>58,500</td> <td></td> <td>ĺ</td> <td></td>		Calcium	UG/L	63,500	58,500		ĺ	
MW-38         Copper         UG/L         10         5.4         B         U         0.4           MW-38         Copper         UG/L         14         13.4         B         U         0.3           MW-38         Cyanide (Total)         UG/L         10         U         4.7           MW-38         Iron         UG/L         16,200         2,960         8.8           MW-38         Lead         UG/L         10         1.3         B         U         1           MW-38         Magnesium         UG/L         22,000         21,500         2.7         MW-38         Magnesium         UG/L         22,000         21,500         2.7           MW-38         Marcury         UG/L         0.20         U         0.05         0.1         0.1           MW-38         Mercury         UG/L         0.20         U         0.05         0.1         0.05           MW-38         Nickel         UG/L         22         11.7         B         U         0.5           MW-38         Potassium         UG/L         2.0         U         1.6         0.4         0.4           MW-38         Selenium         UG/L         2.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td>В</td> <td></td> <td></td>						В		
MW-38         Copper         UG/L         14         13.4         B         U         0.3           MW-38         Cyanide (Total)         UG/L         10         U         4.7           MW-38         Iron         UG/L         16,200         2,960         8.8           MW-38         Lead         UG/L         10         1.3         B         U         1           MW-38         Magnesium         UG/L         22,000         21,500         2.7         MW-38         Magnesium         UG/L         22,000         21,500         0.1         0.1         MW-38         Mercury         UG/L         0.20         U         0.05         MW-38         Mercury         UG/L         0.20         U         0.05         MW-38         Mercury         UG/L         0.20         U         0.05         MW-38         Nickel         UG/L         22         11.7         B         U         0.5         MW-38         Selenium         UG/L         20         U         1.6         MW-38         Selenium         UG/L         2.0         U         1.6         U         0.4         MW-38         Selenium         UG/L         1.0         U         0.4         MW-38         Selenium<		· · · · · · · · · · · · · · · · · · ·	UG/L	10	5.4	В	U	
MW-38         Cyanide (Total)         UG/L         10         U         4.7           MW-38         Iron         UG/L         16,200         2,960         8.8           MW-38         Lead         UG/L         10         1.3         B         U         1           MW-38         Magnesium         UG/L         22,000         21,500         2.7           MW-38         Manganese         UG/L         1,270         720         0.1           MW-38         Mercury         UG/L         0.20         U         0.05           MW-38         Mickel         UG/L         22         11.7         B         U         0.5           MW-38         Potassium         UG/L         959         449         BE         11.1           MW-38         Selenium         UG/L         2.0         U         1.6           MW-38         Silver         UG/L         10         U         0.4           MW-38         Sodium         UG/L         7,380         7,020         101           MW-38         Thallium         UG/L         3.0         U         2.1           MW-38         Vanadium         UG/L         20		<del></del>		14	13.4	В	U	
MW-38         Iron         UG/L         16,200         2,960         8.8           MW-38         Lead         UG/L         10         1.3         B         U         1           MW-38         Magnesium         UG/L         22,000         21,500         2.7           MW-38         Manganese         UG/L         1,270         720         0.1           MW-38         Mercury         UG/L         0.20         U         0.05           MW-38         Nickel         UG/L         0.20         U         0.05           MW-38         Nickel         UG/L         22         11.7         B         U         0.5           MW-38         Potassium         UG/L         20         U         U         1.6           MW-38         Selenium         UG/L         2.0         U         U         1.6           MW-38         Sodium         UG/L         2.0         U         1.6         0.4           MW-38         Sodium         UG/L         3.0         U         1.0         0.4           MW-38         Thallium         UG/L         3.0         U         2.1           MW-38         Vanadium         <			UG/L	10		U		
MW-38         Lead         UG/L         10         1.3         B         U         1           MW-38         Magnesium         UG/L         22,000         21,500         2.7           MW-38         Manganese         UG/L         1,270         720         0.1           MW-38         Mercury         UG/L         0.20         U         0.05           MW-38         Nickel         UG/L         22         11.7         B         U         0.5           MW-38         Potassium         UG/L         22         11.7         B         U         0.5           MW-38         Potassium         UG/L         959         449         BE         11.1           MW-38         Selenium         UG/L         2.0         U         1.6           MW-38         Silver         UG/L         10         U         0.4           MW-38         Sodium         UG/L         7,380         7,020         101           MW-38         Thallium         UG/L         3.0         U         2.1           MW-38         Vanadium         UG/L         2.0         2.9         B         0.4           MW-38         Vanadium		······································		16,200	2,960			
MW-38         Magnesium         UG/L         22,000         21,500         2.7           MW-38         Manganese         UG/L         1,270         720         0.1           MW-38         Mercury         UG/L         0.20         U         0.05           MW-38         Nickel         UG/L         22         11.7         B         U         0.5           MW-38         Potassium         UG/L         959         449         BE         11.1           MW-38         Selenium         UG/L         2.0         U         1.6           MW-38         Silver         UG/L         10         U         0.4           MW-38         Sodium         UG/L         10         U         0.4           MW-38         Sodium         UG/L         10         U         0.4           MW-38         Sodium         UG/L         3.0         U         2.1           MW-38         Thallium         UG/L         3.0         U         2.1           MW-38         Vanadium         UG/L         20         2.9         B         0.4           MW-38         Vanadium         UG/L         73         21         U				10	<del></del>	В	U	
MW-38         Manganese         UG/L         1,270         720         0.1           MW-38         Mercury         UG/L         0.20         U         0.05           MW-38         Nickel         UG/L         22         11.7         B         U         0.5           MW-38         Potassium         UG/L         959         449         BE         11.1           MW-38         Selenium         UG/L         2.0         U         1.6           MW-38         Selenium         UG/L         2.0         U         0.4           MW-38         Silver         UG/L         10         U         0.4           MW-38         Sodium         UG/L         7,380         7,020         101           MW-38         Thallium         UG/L         3.0         U         2.1           MW-38         Vanadium         UG/L         3.0         U         2.1           MW-38         Vanadium         UG/L         20         2.9         B         0.4           MW-39         Aluminum         UG/L         73         21         U         0.4           MW-39         Aluminum         UG/L         520         25		Magnesium	UG/L	22,000	21,500			2.7
MW-38         Mercury         UG/L         0.20         U         0.05           MW-38         Nickel         UG/L         22         11.7         B         U         0.5           MW-38         Potassium         UG/L         959         449         BE         11.1           MW-38         Selenium         UG/L         2.0         U         1.6           MW-38         Silver         UG/L         10         U         0.4           MW-38         Sodium         UG/L         7,380         7,020         101           MW-38         Thallium         UG/L         3.0         U         2.1           MW-38         Vanadium         UG/L         20         2.9         B         0.4           MW-38         Vanadium         UG/L         20         2.9         B         0.4           MW-39         Aluminum         UG/L         73         21         U         0.4           MW-39         Antimony         UG/L         520         25         B         U         8.9           MW-39         Arsenic         UG/L         4.3         U         1.4         1.4           MW-39         Barium	MW-38	<del></del>	UG/L	1,270	·· 720			
MW-38         Nickel         UG/L         22         11.7         B         U         0.5           MW-38         Potassium         UG/L         959         449         BE         11.1           MW-38         Selenium         UG/L         2.0         U         1.6           MW-38         Silver         UG/L         10         U         0.4           MW-38         Sodium         UG/L         7,380         7,020         101           MW-38         Thallium         UG/L         3.0         U         2.1           MW-38         Vanadium         UG/L         20         2.9         B         0.4           MW-38         Zinc         UG/L         20         2.9         B         0.4           MW-38         Zinc         UG/L         73         21         U         0.4           MW-39         Aluminum         UG/L         520         25         B         U         8.9           MW-39         Antimony         UG/L         2.0         U         1         1           MW-39         Arsenic         UG/L         4.3         U         1.4           MW-39         Barium			UG/L	0.20		U		
MW-38         Potassium         UG/L         959         449         BE         11.1           MW-38         Selenium         UG/L         2.0         U         1.6           MW-38         Silver         UG/L         10         U         0.4           MW-38         Sodium         UG/L         7,380         7,020         101           MW-38         Thallium         UG/L         3.0         U         2.1           MW-38         Vanadium         UG/L         20         2.9         B         0.4           MW-38         Zinc         UG/L         20         2.9         B         0.4           MW-38         Zinc         UG/L         20         2.9         B         0.4           MW-38         Zinc         UG/L         73         21         U         0.4           MW-39         Aluminum         UG/L         520         25         B         U         8.9           MW-39         Antimony         UG/L         2.0         U         1         1           MW-39         Arsenic         UG/L         4.3         U         1.4           MW-39         Barium         UG/L	MW-38		UG/L	22	11.7	В	U	
MW-38         Silver         UG/L         10         U         0.4           MW-38         Sodium         UG/L         7,380         7,020         101           MW-38         Thallium         UG/L         3.0         U         2.1           MW-38         Vanadium         UG/L         20         2.9         B         0.4           MW-38         Zinc         UG/L         20         2.9         B         0.4           MW-38         Zinc         UG/L         20         2.9         B         0.4           MW-39         Aluminum         UG/L         520         25         B         U         0.4           MW-39         Antimony         UG/L         2.0         U         1         1         1         0.4         1	MW-38	Potassium	UG/L	959	449	BE		
MW-38         Silver         UG/L         10         U         0.4           MW-38         Sodium         UG/L         7,380         7,020         101           MW-38         Thallium         UG/L         3.0         U         2.1           MW-38         Vanadium         UG/L         20         2.9         B         0.4           MW-38         Zinc         UG/L         20         2.9         B         0.4           MW-39         Aluminum         UG/L         20         2.9         B         0.4           MW-39         Aluminum         UG/L         520         25         B         U         0.4           MW-39         Antimony         UG/L         2.0         U         1         1         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.1         0.4         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.2         0.2         0.2         0.1         0.2         0.2         0.2         0.2 <td>MW-38</td> <td>Selenium</td> <td>UG/L</td> <td>2.0</td> <td></td> <td>U</td> <td></td> <td>1.6</td>	MW-38	Selenium	UG/L	2.0		U		1.6
MW-38         Thallium         UG/L         3.0         U         2.1           MW-38         Vanadium         UG/L         20         2.9         B         0.4           MW-38         Zinc         UG/L         73         21         U         0.4           MW-39         Aluminum         UG/L         520         25         B         U         8.9           MW-39         Antimony         UG/L         2.0         U         1 <td< td=""><td>MW-38</td><td>Silver</td><td>UG/L</td><td>· 10</td><td></td><td>U</td><td>:</td><td></td></td<>	MW-38	Silver	UG/L	· 10		U	:	
MW-38         Vanadium         UG/L         20         2.9         B         0.4           MW-38         Zinc         UG/L         73         21         U         0.4           MW-39         Aluminum         UG/L         520         25         B         U         8.9           MW-39         Antimony         UG/L         2.0         U         1 <t< td=""><td>MW-38</td><td>Sodium</td><td>UG/L</td><td>7,380</td><td>7,020</td><td></td><td></td><td>101</td></t<>	MW-38	Sodium	UG/L	7,380	7,020			101
MW-38         Vanadium         UG/L         20         2.9         B         0.4           MW-38         Zinc         UG/L         73         21         U         0.4           MW-39         Aluminum         UG/L         520         25         B         U         8.9           MW-39         Antimony         UG/L         2.0         U         1 <t< td=""><td>MW-38</td><td>Thallium</td><td>UG/L</td><td>3.0</td><td></td><td>U</td><td></td><td>2.1</td></t<>	MW-38	Thallium	UG/L	3.0		U		2.1
MW-38         Zinc         UG/L         73         21         U         0,4           MW-39         Aluminum         UG/L         520         25         B         U         8,9           MW-39         Antimony         UG/L         2.0         U         1         1           MW-39         Arsenic         UG/L         4.3         U         1.4         1.4           MW-39         Barium         UG/L         95         77.3         B         0.1         0.1         0.1         MW-39         Beryllium         UG/L         1.0         0.12         B         U         0.1         0.1         0.1         MW-39         Cadmium         UG/L         1.0         0.74         B         U         0.2	MW-38	Vanadium	UG/L	20	2.9	В		
MW-39         Aluminum         UG/L         520         25         B         U         8,9           MW-39         Antimony         UG/L         2.0         U         1           MW-39         Arsenic         UG/L         4.3         U         1.4           MW-39         Barium         UG/L         95         77.3         B         0.1           MW-39         Beryllium         UG/L         1.0         0.12         B         U         0.1           MW-39         Cadmium         UG/L         1.0         0.74         B         U         0.2           MW-39         Calcium         UG/L         125,000         103,000         8.5           MW-39         Chromium (Total)         UG/L         12         0.83         B         0.5           MW-39         Cobalt         UG/L         10         1.2         B         U         0.4           MW-39         Copper         UG/L         16         0.63         B         U         0.3           MW-39         Cyanide (Total)         UG/L         10         U         4.7           MW-39         Iron         UG/L         17,300         6,640	MW-38	Zinc	UG/L	73	21		U	
MW-39         Antimony         UG/L         2.0         U         1           MW-39         Arsenic         UG/L         4.3         U         1.4           MW-39         Barium         UG/L         95         77.3         B         0.1           MW-39         Beryllium         UG/L         1.0         0.12         B         U         0.1           MW-39         Cadmium         UG/L         1.0         0.74         B         U         0.2           MW-39         Calcium         UG/L         125,000         103,000         8.5           MW-39         Chromium (Total)         UG/L         12         0.83         B         0.5           MW-39         Cobalt         UG/L         10         1.2         B         U         0.4           MW-39         Copper         UG/L         16         0.63         B         U         0.3           MW-39         Cyanide (Total)         UG/L         10         U         4.7           MW-39         Iron         UG/L         17,300         6,640         8,8	MW-39	Aluminum	UG/L	520	25	В	U	1
MW-39         Arsenic         UG/L         4.3         U         1.4           MW-39         Barium         UG/L         95         77.3         B         0.1           MW-39         Beryllium         UG/L         1.0         0.12         B         U         0.1           MW-39         Cadmium         UG/L         1.0         0.74         B         U         0.2           MW-39         Calcium         UG/L         125,000         103,000         8.5           MW-39         Chromium (Total)         UG/L         12         0.83         B         0.5           MW-39         Cobalt         UG/L         10         1.2         B         U         0.4           MW-39         Copper         UG/L         16         0.63         B         U         0.3           MW-39         Cyanide (Total)         UG/L         10         U         4.7           MW-39         Iron         UG/L         17,300         6,640         8,8				2.0		U		1
MW-39         Barium         UG/L         95         77.3         B         0.1           MW-39         Beryllium         UG/L         1.0         0.12         B         U         0.1           MW-39         Cadmium         UG/L         1.0         0.74         B         U         0.2           MW-39         Calcium         UG/L         125,000         103,000         8.5           MW-39         Chromium (Total)         UG/L         12         0.83         B         0.5           MW-39         Cobalt         UG/L         10         1.2         B         U         0.4           MW-39         Copper         UG/L         16         0.63         B         U         0.3           MW-39         Cyanide (Total)         UG/L         10         U         4.7           MW-39         Iron         UG/L         17,300         6,640         8.8							1	<del></del>
MW-39         Beryllium         UG/L         1.0         0.12         B         U         0.1           MW-39         Cadmium         UG/L         1.0         0.74         B         U         0.2           MW-39         Calcium         UG/L         125,000         103,000         8.5           MW-39         Chromium (Total)         UG/L         12         0.83         B         0.5           MW-39         Cobalt         UG/L         10         1.2         B         U         0.4           MW-39         Copper         UG/L         16         0.63         B         U         0.3           MW-39         Cyanide (Total)         UG/L         10         U         4.7           MW-39         Iron         UG/L         17,300         6,640         8,8		<del></del>		<del></del>	77.3			
MW-39         Cadmium         UG/L         1.0         0.74         B         U         0.2           MW-39         Calcium         UG/L         125,000         103,000         8.5           MW-39         Chromium (Total)         UG/L         12         0.83         B         0.5           MW-39         Cobalt         UG/L         10         1.2         B         U         0.4           MW-39         Copper         UG/L         16         0.63         B         U         0.3           MW-39         Cyanide (Total)         UG/L         10         U         4.7           MW-39         Iron         UG/L         17,300         6,640         8.8		<del></del>		<del>                                     </del>			U	
MW-39         Calcium         UG/L         125,000         103,000         8.5           MW-39         Chromium (Total)         UG/L         12         0.83         B         0.5           MW-39         Cobalt         UG/L         10         1.2         B         U         0.4           MW-39         Copper         UG/L         16         0.63         B         U         0.3           MW-39         Cyanide (Total)         UG/L         10         U         4.7           MW-39         Iron         UG/L         17,300         6,640         8.8						<del>-,</del>	•	
MW-39         Chromium (Total)         UG/L         12         0.83         B         0.5           MW-39         Cobalt         UG/L         10         1.2         B         U         0.4           MW-39         Copper         UG/L         16         0.63         B         U         0.3           MW-39         Cyanide (Total)         UG/L         10         U         4.7           MW-39         Iron         UG/L         17,300         6,640         8,8								
MW-39         Cobalt         UG/L         10         1.2         B         U         0.4           MW-39         Copper         UG/L         16         0.63         B         U         0.3           MW-39         Cyanide (Total)         UG/L         10         U         4.7           MW-39         Iron         UG/L         17,300         6,640         8.8		· · · · · · · · · · · · · · · · · · ·		<del></del>		В		
MW-39         Copper         UG/L         16         0.63         B         U         0.3           MW-39         Cyanide (Total)         UG/L         10         U         4.7           MW-39         Iron         UG/L         17,300         6,640         8,8							U	
MW-39         Cyanide (Total)         UG/L         10         U         4.7           MW-39         Iron         UG/L         17,300         6,640         8.8			<del></del>	<del></del>			<del></del>	
MW-39 Iron UG/L 17,300 6,640 8,8			<del></del>				<u> </u>	
		<del>                                     </del>		<del></del>	6,640	†	<u> </u>	
IMW-39 Head   HG/L   35   1   1   R   H   1   1	MW-39	Lead	UG/L	3.5	1	В	U	1
MW-39 Magnesium UG/L 22,300 18,700 2.7						+	<del>                                     </del>	
MW-39 Manganese UG/L 1,060 714 0.1			<del></del>			<del>                                     </del>	<del>                                     </del>	

**BOLD** = Exceedance

#### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-39	Mercury	UG/L	0.20		U		0.05
_MW-39	Nickel	UG/L	712		U		0.5
MW-39	Potassium	UG/L	8,190	5,280	Е		11.1
MW-39	Selenium	UG/L	2.0		U		1.6
MW-39	Silver	UG/L	10		U		0.4
MW-39	Sodium	UG/L	123,000	# <b>5154,000</b>			101
MW-39	Thallium	UG/L	3.0		U		2.1
MW-39	Vanadium	UG/L	20	0.48	В	U.	0.4
MW-39	Zinc	UG/L	36		U		0.4
MW-40	Arsenic	UG/L	3.8	· ·	U		1.4
MW-40	Lead	UG/L	11	3.4		U	1
MW-41	Aluminum	UG/L	1,040	99.2	В	U	8.9
MW-41	Antimony	UG/L	2.0	1.4	В	U	1
MW-41	Arsenic	UG/L	3.0		U		1.4
MW-41	Barium	UG/L	31	17.6	B		0.1
MW-41	Beryllium	UG/L	1.0		U		0.1
MW-41	Cadmium	UG/L	1.0	0.29	В		0.2
MW-41	Calcium	UG/L	55,200	41,400			8.5
MW-41	Chromium (Total)	UG/L	10	8.6	В	1	0.5
MW-41	Cobalt	UG/L	10	1.7	В	U	0.4
MW-41	Copper	UG/L	16	4.2	В	Ü	0.3
MW-41	Cyanide (Total)	UG/L	10		U		4.7
MW-41	Iron	UG/L	1,670	187		<u> </u>	8.8
MW-41	Lead	UG/L	13	1.3	В	U	1
MW-41	Magnesium	UG/L	18,500	13,900	_	1	2.7
MW-41	Manganese	UG/L	414	16.3			0.1
MW-41	Mercury	UG/L	0.20	:	U		0.05
MW-41	Nickel	UG/L	20	4.7	В	U	0.5
MW-41	Potassium	UG/L	964	279	BE		11.1
MW-41	Selenium	UG/L	2.0		U	Ì	1.6
MW-41	Silver	UG/L	10		U		0.4
MW-41	Sodium	UG/L	9,560	8,350	_		101
MW-41	Thallium	UG/L	3.0	3,555	U		2.1
MW-41	Vanadium	UG/L	20		U		0.4
MW-41	Zinc	UG/L	32		U		0.4
MW-42	Aluminum	UG/L	1,880		U	1	8.9
MW-42	Antimony	UG/L	2.0	26.2	В	1	1
MW-42	Arsenic	UG/L	15	2.3	В	U	1.4
MW-42	Barium	UG/L	97	65.4	В	╁	0.1
MW-42	Beryllium	UG/L	1.0	05.7	U	<del> </del>	0.1
MW-42	Cadmium	UG/L	1.0	1	В	<del>                                     </del>	0.1
MW-42	Calcium	UG/L	139,000	107,000		<del>                                     </del>	
MW-42	Chromium (Total)	UG/L	159,000	0.71	В	<del> </del>	8.5
MW-42	Cobalt	UG/L	10	1.4	<u>. В</u>	U	0.5
				+		U	0.4
MW-42	Copper (Total)	UG/L	22	1.7	В	<del>                                     </del>	0.3
MW-42	Cyanide (Total)	UG/L	10		U	1	4.7

**BOLD** = Exceedance

#### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect	1	Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-42	Iron	UG/L	11,100	3,390		1	8.8
MW-42	Lead	UG/L	5.7		U		_1
MW-42	Magnesium	UG/L	49,800	40,300	•		2.7
MW-42	Manganese	UG/L	928	631			0.1
MW-42	Mercury	UG/L	0.20		U		0.05
MW-42	Nickel	UG/L	20		U		0.5
MW-42	Potassium	UG/L	2,350	868 .	BE		11.1
MW-42	Selenium	UG/L	2.0		U		1.6
MW-42	Silver	UG/L	10		U		0.4
MW-42	Sodium	UG/L	18,000	14,800			101
MW-42	Thallium	UG/L	3.0		U		2.1
MW-42	Vanadium	UG/L	20		U		0.4
MW-42	Zinc	UG/L	30		U		0.4
MW-43	Aluminum	UG/L	12,700	211			33.2
MW-43	Antimony	UG/L	2.0		U		1.8
MW-43	Arsenic	UG/L	81	22.8			_2
MW-43	Barium	UG/L	128	58	В	J	0.2
MW-43	Beryllium	UG/L	1.5	0.32	В	J	0.1
MW-43	Cadmium	UG/L	1.3		U		0.5
MW-43	Calcium	UG/L	134,000	105,000			10.7
MW-43	Chromium (Total)	UG/L	95	3.4	В	J	0.9
MW-43	Cobalt	UG/L	20	2.1	В	J	0.6
MW-43	Copper	UG/L	75	1.3	В	J	1.1
MW-43	Cyanide (Total)	UG/L	10	32 40.6		J	4.7
MW-43	Iron	UG/L	47,500	10,000			18.9
MW-43	Lead	UG/L	33		U		1
MW-43	Magnesium	UG/L	63,600	45,500			7.7
MW-43	Manganese	UG/L	857	245			0.1
MW-43	Mercury	UG/L	0.20		U	UJ	0.05
MW-43	Nickel	UG/L	82	4.3	В	J	1
MW-43	Potassium	UG/L	5,610	465	В	J	61.8
MW-43	Selenium	UG/L	2.1		U		3.1
MW-43	Silver	UG/L	10		U		0.3
MW-43	Sodium	UG/L	13,100	14,700			212
MW-43	Thallium	UG/L	3.0		U		4.1
MW-43	Vanadium	UG/L	31	1.6	В	J	0.6
MW-43	Zinc	UG/L	104		U	UJ	1.1
MW-44	Aluminum	UG/L	1,710		U		8.9
MW-44	Antimony	UG/L	2.0		U	l	1
MW-44	Arsenic	UG/L	41	7.3	В	U	1.4
MW-44	Barium	UG/L	150	119	В		0.1
MW-44	Beryllium	UG/L	1.0		Ü	1	0.1
MW-44	Cadmium	UG/L	1.0		В		0.2
MW-44	Calcium	UG/L	94,000	87,800			8.5
MW-44	Chromium (Total)	UG/L	31	5.9	В	1	0.5
MW-44	Cobalt	UG/L	10	0.51	В	U	0.4

**BOLD** = Exceedance

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>
MW-44	Copper	UG/L	27	2.3	В	U	0.3
MW-44	Iron	UG/L	14,700	1,700		J	8.8
MW-44	Lead	UG/L	1.5		U		1
MW-44	Magnesium	UG/L	38,450	38,000			2.7
MW-44	Manganese	UG/L	108	35.1			0.1
MW-44	Mercury	UG/L	0.20		U		0.05
MW-44	Nickel	UG/L	23	3.1	В	U	0.5
MW-44	Potassium	UG/L	2,040	973	BE		11.1
MW-44	Selenium	UG/L	2.0	5.	U		1.6
MW-44	Silver	UG/L	10	0.52	В	1	0.4
MW-44	Sodium	UG/L	20,800	26,400		V	101
MW-44	Thallium	UG/L	3.0		U		2.1
MW-44	Vanadium	UG/L	20		Ü	T	0.4
MW-44	Zinc	UG/L	28		U		0.4
MW-45	Aluminum	UG/L	776	311			33.2
MW-45	Antimony	UG/L	2.0	2.1	В	J	1.8
MW-45	Arsenic	UG/L	44	43.5			2
MW-45	Barium	UG/L	117	84.2	В	J	0.2
MW-45	Beryllium	UG/L	1.0	0.26	В	J	0.1
MW-45	Cadmium	UG/L	1.0		U		0.5
MW-45	Calcium	UG/L	120,000	88,900		9.47	10.7
MW-45	Chromium (Total)	UG/L	29	64.1	<del></del>	٠.	0.9
MW-45	Cobalt	UG/L	10	3	В	J	0.6
MW-45	Copper	UG/L	48	5	В	J	1.1
MW-45	Cyanide (Total)	UG/L	10		U		4.7
MW-45	Iron	UG/L	15,900	16,600			18.9
MW-45	Lead	UG/L	39	1.8	В	J	1
MW-45	Magnesium	UG/L	322,000	23,300			7.7
MW-45	Manganese	UG/L	688	285			0.1
MW-45	Mercury	UG/L	0.20		U	UJ	0.05
MW-45	Nickel	UG/L	35	48.3			1
MW-45	Potassium	UG/L	8,350	5,430	Е	J	61.8
MW-45	Selenium	UG/L	2.0	3.1	UN		3.1
MW-45	Silver	UG/L	10		U		0.3
MW-45	Sodium	UG/L	101,000	94,000		<del></del>	212
MW-45	Thallium	UG/L	3.0	7.,000	U	<del>                                     </del>	4.1
MW-45	Vanadium	UG/L	20	1.1	В	J	0.6
MW-45	Zinc	UG/L	21	5.6	B*	J	1.1
MW-46	Aluminum	UG/L	821	39.2	<u>В</u>	J	33.2
MW-46	Antimony	UG/L	2.0		U	<del>                                     </del>	1.8
MW-46	Arsenic	UG/L	3.7	<del>                                     </del>	U	<del>                                     </del>	2
MW-46	Barium	UG/L	132	3.83.5146°	В	J	0.2
MW-46	Beryllium	UG/L	1.0	0.21	В	J	
MW-46	<del>                                     </del>	UG/L	1.1	0.21	U	<del>                                     </del>	0.1
MW-46	Calaium			\$135,000	U	<del> </del>	0.5
	Chromium (Total)	UG/L	115,000	25/26/2000 CC1/98/25/25	ŢT	<del>                                      </del>	10.7
MW-46	Chromium (Total)	UG/L	12	<u> </u>	U		0.9

BOLD = Exceedance

#### American Chemical Services NPL Site Griffith, Indiana

MW-46 Co MW-46 Iro MW-46 Le: MW-46 Ma MW-46 Ma MW-46 Ma MW-46 Nic MW-46 Sel MW-46 Sol MW-46 Sol MW-46 Th		UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	10 13 10 21,700 5.0 32,400 1,510 0.20 20 1,450 2.0	Result  33,000  37,500  1,810  798	LQ U U U	UJ	0.6 1.1 4.7 18.9 . 1 7.7 0.1 0.05
MW-46 Co MW-46 Iro MW-46 Le: MW-46 Ma MW-46 Ma MW-46 Ma MW-46 Nic MW-46 Sel MW-46 Sol MW-46 Sol MW-46 Th	opper yanide (Total) on ead agnesium anganese ercury ickel otassium elenium lver	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	13 10 21,700 5.0 32,400 1,510 0.20 20 1,450 2.0	33,000 37,500 22,12,810	U U U		1.1 4.7 18.9 1 7.7 0.1 0.05
MW-46 Cy MW-46 Iro MW-46 Le: MW-46 Ma MW-46 Ma MW-46 Mo MW-46 Ni MW-46 Sel MW-46 Sil MW-46 Sol MW-46 Th	yanide (Total) on ead agnesium anganese ercury ickel otassium elenium lver	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	10 21,700 5.0 32,400 1,510 0.20 20 1,450 2.0	37,500 1,810	U U U		4.7 18.9 1 7.7 0.1 0.05
MW-46 Iro MW-46 Les MW-46 Ma MW-46 Ma MW-46 Mo MW-46 Ni MW-46 Sel MW-46 Sil MW-46 Sol MW-46 Th	on ead agnesium anganese ercury ickel otassium elenium lver	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	21,700 5.0 32,400 1,510 0.20 20 1,450 2.0	37,500 1,810	U U U		18.9 . 1 . 7.7 . 0.1 . 0.05
MW-46 Les MW-46 Ma MW-46 Me MW-46 Nie MW-46 Po MW-46 Sel MW-46 Sil MW-46 Sol MW-46 Th	ead agnesium anganese ercury ickel otassium elenium lver	UG/L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	5.0 32,400 1,510 0.20 20 1,450 2.0	37,500 1,810	U . U	UJ	7.7 0.1 0.05
MW-46 Ma MW-46 Me MW-46 Nie MW-46 Po MW-46 Sel MW-46 Sil MW-46 So MW-46 Th	agnesium anganese ercury ickel otassium elenium lver	UG/L UG/L UG/L UG/L UG/L UG/L UG/L	32,400 1,510 0.20 20 1,450 2.0	1,810	U . U	UJ	7.7 0.1 0.05
MW-46 Ma MW-46 Me MW-46 Nie MW-46 Po MW-46 Sel MW-46 Sil MW-46 So MW-46 Th	anganese ercury ickel otassium elenium lver odium	UG/L UG/L UG/L UG/L UG/L UG/L UG/L	1,510 0.20 20 1,450 2.0	1,810	· U	UJ	0.1 0.05
MW-46 Ma MW-46 Me MW-46 Nie MW-46 Po MW-46 Sel MW-46 Sol MW-46 Th	anganese ercury ickel otassium elenium lver odium	UG/L UG/L UG/L UG/L UG/L UG/L	1,510 0.20 20 1,450 2.0	1,810	· U	UJ	0.1 0.05
MW-46 Me MW-46 Nie MW-46 Po MW-46 Sel MW-46 Sil MW-46 Th	ercury ickel otassium elenium lver odium	UG/L UG/L UG/L UG/L UG/L	0.20 20 1,450 2.0	798	· U	UJ	0.05
MW-46 Nic MW-46 Po MW-46 Sel MW-46 Sil MW-46 So MW-46 Th	ickel otassium elenium Iver odium	UG/L UG/L UG/L UG/L	20 1,450 2.0	798			
MW-46 Po MW-46 Sel MW-46 Sil MW-46 So MW-46 Th	otassium elenium Iver odium	UG/L UG/L UG/L	1,450 2.0	798	Γ.		1 1
MW-46 Sel MW-46 Sil MW-46 So MW-46 Th	elenium Iver odium	UG/L UG/L	2.0		В	J	61.8
MW-46 Sil MW-46 So MW-46 Th	lver odium	UG/L		1	U		3.1
MW-46 So MW-46 Th	odium		10		U		0.3
MW-46 Th		OUL I	74,900	73,400		1	212
		UG/L	3.0		U	1	4.1
	anadium	UG/L	20	1.8	В	J	0.6
MW-46 Zir		UG/L	19	2.2	В	J	1.1
	luminum	UG/L	1,630	130	В	J	33.2
	ntimony	UG/L	2.0	\$23 a 22	В	J	1.8
	rsenic	UG/L	2.0		U		2
	arium	UG/L	13	6.2	В	·J	0.2
	eryllium	UG/L	1.0	0.28	В	J	0.1
	admium	UG/L	1.0		U	<del></del>	0.5
	alcium	UG/L	13,700	7,680			10.7
	hromium (Total)	UG/L	10	3.2	В	J	0.9
	obalt	UG/L	10	0.74	В	J	0.6
	opper	UG/L	15	1.4	В	J	1.1
	yanide (Total)	UG/L	: 10		U	UJ	4.7
MW-47 Iro		UG/L	1,130	172			18.9
MW-47 Le	ead	UG/L	23	1.6	В	J	1
	agnesium	·UG/L	3,990	2,480	В	J	7.7
	anganese	UG/L	27	5.4	В	J	0.1
	ercury	UG/L	0.20		U	UJ	0.05
	ickel	UG/L	20	1.8	В	J	1
	otassium	UG/L	1,130	613	B	J	61.8
	elenium	UG/L	2.0		Ū		3.1
	lver	UG/L	10	0.58	В	J	0.3
	odium	UG/L	6,750	4,900	В	J	212
	hallium	UG/L	4.3	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	U	<del> </del>	4.1
	anadium	UG/L	20	0.7	B	J	0.6
MW-47 Zii		UG/L	42		U	<del> </del>	1.1
	luminum	UG/L	330	119	В	U	8.9
	ntimony	UG/L	2.0	1.8	В	Ū	1
	rsenic	UG/L	13	4	<u>в</u>	Ü	<del></del>
	arium	UG/L	160	83.5	В	<del>                                     </del>	1.4
	eryllium	UG/L	1.0	0.13	В	U	0.1
	admium	UG/L	1.0	0.13	U	<del>                                     </del>	0.1

BOLD = Exceedance

NA = Not Applicable

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect		Current	Event	
	•		during Baseline	Result	LQ	DQ	Detect Limit
MW-48	Calcium	UG/L	142,000	84,100			8.5
MW-48	Chromium (Total)	UG/L	10	9.9	В	l	0.5
MW-48	Cobalt	UG/L	10	1.9	В	U	0.4
MW-48	Copper	UG/L	14	2.3	В	U.	0.3
MW-48	Cyanide (Total)	UG/L	10		U		4.7
MW-48	Iron	ŲG/L	30,800	15,500			- 8.8
MW-48	Lead	UG/L	7.7		U		1
MW-48	Magnesium	UG/L	20,100	12,900			2,7
MW-48	Manganese	UG/L	688	325			0.1
MW-48	Mercury	UG/L	0.20		U		0.05
MW-48	Nickel	UG/L	20	14.8	В		0.5
MW-48	Potassium	UG/L	8,470	4,030	BE		11.1
MW-48	Selenium	UG/L	2.0		U		1.6
MW-48	Silver	UG/L	10		U		0.4
MW-48	Sodium	UG/L	52,100	27,500			101
MW-48	Thallium	UG/L	4.0		U		2.1
MW-48	Vanadium	UG/L	20	2	В	U	0.4
MW-48	Zinc	UG/L	53	4.3	В	U	0.4
MW-49	Aluminum	UG/L	1,070	387			33.2
MW-49	Antimony	UG/L	2.0	42.4	В	JB	1.8
MW-49	Arsenic	UG/L	38	25.7			2
MW-49	Barium	UG/L	135	117	B	J	0.2
MW-49	Beryllium	-UG/L	1.1	0.53	В	JB	0.1
MW-49	Cadmium	UG/L	1.0		U		0.5
MW-49	Calcium	UG/L	94,600	81,900			10.7
MW-49	Chromium (Total)	UG/L	11	1.9	В	J	0.9
MW-49	Cobalt	UG/L	10	1.3	В	JB	0.6
MW-49	Copper	UG/L	12	2	В	JB	1,1
MW-49	Cyanide (Total)	UG/L	10		U		4.7
MW-49	Iron	UG/L	28,700	32,600			18.9
MW-49	Lead	UG/L	4.4		U		1
MW-49	Magnesium	UG/L	11,800	11,900			7.7
MW-49	Manganese	UG/L	2,330	1,560			0.1
MW-49	Mercury	UG/L	0.20		U	UJ	0.02
MW-49	Nickel	UG/L	21	5.5	В	J	1
MW-49	Potassium	UG/L	5,900	4,030	BE	JВ	61.8
MW-49	Selenium	UG/L	2.0	15. 3.5. 3.5. 3.5. 3.5. S. S. S. S. S. S. S. S. S. S. S. S. S.	В	J	3.1
MW-49	Silver	UG/L	10		U	T	0.3
MW-49	Sodium	UG/L	29,650	19,900			212
MW-49	Thallium	UG/L	3.0	864	В	J	4.1
MW-49	Vanadium	UG/L	20	3.6	В	J	0.6
MW-49	Zinc	UG/L	60	10.3	В	J	1.1
MW-50	Aluminum	UG/L	12,000	4,440	<u> </u>	<del> </del>	33.2
MW-50	Antimony	UG/L	2.0	2.3	В	J	1.8
MW-50	Arsenic	UG/L	7.7	2.9	В	J	2
	·					┼	
MW-50 MW-50	Barium	UG/L UG/L	314	2.9	D	<u> </u>	0.2

**BOLD** = Exceedance

#### **American Chemical Services NPL Site** Griffith, Indiana

Well	Analyte	Units	Highest Detect		Event			
			during Baseline	Result	LQ	DQ	<b>Detect Limit</b>	
MW-50	Beryllium	UG/L	1.1	0.41	В	J	0.1	
MW-50	Cadmium	UG/L	1.0	0.71	В		0.5	
MW-50	Calcium	UG/L	191,000	141,000			10.7	
MW-50	Chromium (Total)	UG/L	130	146			0.9	
MW-50	Cobalt	UG/L	12	5.7	В	J	0.6	
MW-50	Copper	UG/L	41 .	12.6	В	J	1.1	
MW-50	Cyanide (Total)	.UG/L	10		U		4.7	
MW-50	Iron	UG/L	20,200	10,300			18.9	
MW-50	Lead	UG/L	14	4			1	
MW-50	Magnesium	UG/L	87,800	66,500			7.7	
MW-50	Manganese	UG/L	408	184			0.1	
MW-50	Mercury	UG/L	0.20	53.63.51.164.655		J	0	
MW-50	Nickel	UG/L	105	109		1	1	
MW-50	Potassium	UG/L	21,200	9,530	E	J	61.8	
MW-50	Selenium	UG/L	2.0	3.16.5.5.0	UN		3.1	
MW-50	Silver	UG/L	1.0	,	U		0.3	
MW-50	Sodium	UG/L	481,000	304,000			212	
MW-50	Thallium	UG/L	3.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	U		4.1	
MW-50	Vanadium	UG/L	19	8.3	В	J	0.6	
MW-50	Zinc	UG/L	57	19.1	B*	J	1.1	
MW-51	Aluminum	UG/L	1,040	166	В	J	33.2	
MW-51	Antimony	UG/L	2.0		U		1.8	
MW-51	Arsenic	UG/L	3.9		U		2	
MW-51	Barium	UG/L	455	391			0.2	
MW-51	Beryllium	UG/L	1.0	0.44	В	J	0.1	
MW-51	Cadmium	UG/L	1.0	0.81	В	J	0.5	
MW-51	Calcium	UG/L	153,000	131,000			10.7	
MW-51	Chromium (Total)	UG/L	7.5	1.6	В	J	0.9	
MW-51	Cobalt	UG/L	2.3	0.76	В	J	0.6	
MW-51	Copper	UG/L	6.7	1.7	В	J	1.1	
MW-51	Cyanide (Total)	UG/L	10		U	UJ	4.7	
MW-51	Iron	UG/L	8,660	7,400			18.9	
MW-51	Lead	UG/L	3.9		U	1	1	
MW-51	Magnesium	UG/L	67,600	62,600			7.7	
MW-51	Manganese	UG/L	173	88.6			0.1	
MW-51	Mercury	UG/L	0.20		U	UJ	0.05	
MW-51	Nickel	UG/L	11	3.1	В	J	1	
MW-51	Potassium	UG/L	4,495	2,410	В	J	61.8	
MW-51	Selenium	UG/L	2.0	3,120	В	1 1	3.1	
MW-51	Silver	UG/L	1.0	A PROMOTE OF LESSONS (1982)	U	<del>                                     </del>	0.3	
MW-51	Sodium	UG/L	114,000	98,800		<del>                                     </del>	212	
MW-51	Thallium	UG/L	3.0	70,000	U	<del>                                     </del>	4.1	
MW-51	Vanadium	UG/L	1.8	0.77	В	<del>                                     </del>	0.6	
				0.11			1.1	
				381		+	33.2	
				301	T T	+	1.8	
MW-51 MW-52 MW-52	Zinc Aluminum Antimony	UG/L UG/L UG/L	19 4,190 6.8	381	U U	UJ	33	

**BOLD** = Exceedance

### American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline		Current	Event	<del></del>
				Result	LQ	DQ	Detect Limit
MW-52	Arsenic	UG/L	125	3.3	В	J	2
MW-52	Barium	UG/L	369	307			0.2
MW-52	Beryllium	UG/L	1.2	0.16	В	JB	0.1
MW-52	Cadmium	UG/L	1.0	0.86	В	J	0.5
MW-52	Calcium	UG/L	139,000 .	10,700			10.7
MW-52	Chromium (Total)	UG/L	248	3		J	0.9
MW-52	Cobalt	UG/L	13	1.1	В	JB	0.6
MW-52	Copper	UG/L	67	1.9	В	JB	1.1
MW-52	Cyanide (Total)	UG/L	10	9	В	· J	4.7
MW-52	Iron -	UG/L	11,600	4,630			18.9
MW-52	Lead	UG/L	31		U		1
MW-52	Magnesium	UG/L	52,800	44,300		1	7.7
MW-52	Manganese	UG/L	673	139			0.1
MW-52	Mercury	UG/L	0.20		U	UJ	0.02
MW-52	Nickel	UG/L	201	5	<u></u>	J	1
MW-52	Potassium	UG/L	7,770	2,360	BE	JB	61.8
MW-52	Selenium	UG/L	2.1		U		3.1
MW-52	Silver	UG/L	1.0	0.36	В	J	0.3
MW-52	Sodium	UG/L	152,000	15,500			212
MW-52	Thallium	UG/L	4.1		U	i	4.1
MW-52	Vanadium	UG/L	11	1.3	В	J	0.6
MW-52	Zinc	UG/L	90	1.2	В	J	1.1
MW-53	Aluminum	UG/L	39,200	229			33.2
MW-53	Antimony	UG/L	3.3	3.3	В	JB	1.8
MW-53	Arsenic	UG/L	30	3.4	В	J	2
MW-53	Barium	UG/L	1,620	1,420		Ì	0.2
MW-53	Beryllium	UG/L	6.2	0.29	В	JB	0.1
MW-53	Cadmium	UG/L	1.0	1.465 %	В	J	0.5
MW-53	Calcium	UG/L	258,000	24,600			10.7
MW-53	Chromium (Total)	UG/L	189	2.3	В	J	0.9
MW-53	Cobalt	UG/L	25	3.2	B	JB	0.6
MW-53	Copper	UG/L	107		U		1.1
MW-53	Cyanide (Total)	UG/L	10		U		4.7
MW-53	Iron	UG/L	48,800	25,800	·		18.9
MW-53	Lead	UG/L	138		U		1
MW-53	Magnesium	UG/L	117,000	93,200			7.7
MW-53	Manganese	UG/L	1,630	83.9			0.1
MW-53	Mercury	UG/L	0.24	0.08	В	JB	0.02
MW-53	Nickel	UG/L	139	8.6	<u>B</u>	J	1
MW-53	Potassium	UG/L	33,200	20,900	E	J	61.8
MW-53	Selenium	UG/L	5.1		Ū		3.1
MW-53	Silver	UG/L	1.0	<del> </del>	U	<del> </del>	0.3
MW-53	Sodium	UG/L	404,000	33,900		<b>†</b>	212
MW-53	Thallium	UG/L	3.0	33,700	U	<del>                                     </del>	4.1
MW-53	Vanadium	UG/L	32	1.9	В	J	0.6
MW-53	Zinc	UG/L	443	1.5	В	J	1.1

BOLD = Exceedance

NA = Not Applicable

# American Chemical Services NPL Site Griffith, Indiana

Well	Analyte	Units	Highest Detect	1	Current	Event	
			during Baseline	Result	LQ	DQ	Detect Limit
MW-54R	Aluminum_	UG/L	1,980	63.8	В	U	8.9
MW-54R	Antimony	UG/L	3.2		U		_ 1
MW-54R	Arsenic	UG/L	9.8	1.8	В	U	1.4
MW-54R	Barium	UG/L	190	237			0.1
MW-54R	Beryllium	UG/L	1.0		U		0.1
MW-54R	Cadmium	UG/L	1.0	1.12	В		0.2
MW-54R	Calcium	UG/L	132,000	139,000			8.5
MW-54R	Chromium (Total)	UG/L	82	4.1	В		0.5
MW-54R	Cobalt	UG/L	4.0	1	В	U	0.4
MW-54R	Copper	UG/L	60	1.7	B	U	0.3
MW-54R	Cyanide (Total)	UG/L	10		U		4.7
MW-54R	Iron	UG/L	5,480	4,570			8.8
MW-54R	Lead	UG/L	10	2	<u>B</u>	U	1
MW-54R	Magnesium	UG/L	54,100	60,900			2,7
MW-54R	Manganese	UG/L	256	_88.4			0.1
MW-54R	Mercury	UG/L	0.20		U		0.05
MW-54R	Nickel	UG/L	66	3.2	В	U	0.5
MW-54R	Potassium	UG/L	4,540	2,100	BE		11.1
MW-54R	Selenium	UG/L	2.7		U		1.6
MW-54R	Silver	UG/L	1.0		U		0.4
MW-54R	Sodium	UG/L	28,700	38,300			101
MW-54R	Thallium	UG/L	3.0		U		2.1
MW-54R	Vanadium	UG/L	3.4		U		0.4
MW-54R	Zinc	UG/L	128		U		0.4
MW-55	Aluminum	UG/L	15,950	182	В	U	8.9
MW-55	Antimony	UG/L	2.2		U		11
MW-55	Arsenic	UG/L	13	2.1	В	U	1.4
MW-55	Barium	UG/L	286	261			0.1
_MW-55	Beryllium	UG/L	2.7	0.26	В	U	0.1
MW-55	Cadmium	UG/L	1.0	_0.77	В		0.2
MW-55	Calcium	UG/L	80,000	74,500			8.5
MW-55	Chromium (Total)	UG/L	145	3.6	В		0.5
MW-55	Cobalt	UG/L	11	1.8	B_	U	0.4
MW-55	Copper	UG/L	105	5.9	В	U	0.3
MW-55	Cyanide (Total)	UG/L	10		U		4.7
MW-55	Iron	UG/L	17,700	370			8.8
MW-55	Lead	UG/L	46	2	В	U	11
MW-55	Magnesium	UG/L	48,500	53,600			2.7
MW-55	Manganese	UG/L	_594	113			0.1
MW-55	Mercury	UG/L	0.22		U		0.05
MW-55	Nickel	UG/L	110	3.2	В		0.5
MW-55	Potassium	UG/L	11,350	4,090	BE		11.1
MW-55	Selenium	UG/L	4.7		U		1.6
MW-55	Silver	UG/L	1.0		U		0.4
MW-55	Sodium	UG/L	128,000	45,800		T	101
MW-55	Thallium	UG/L	3.0	2.7	В	T	2.1

BOLD = Exceedance

NA = Not Applicable

# Comparison of Results to Baseline Highest Detections June 1999 American Chemical Services NPL Site

#### American Chemical Services NP Griffith, Indiana

Well	Analyte	Units	Highest Detect	Current Event			
			during Baseline	Result	LQ	DQ	Detect Limit
MW-55	Vanadium	UG/L	16		U		0.4
MW-55	Zinc	UG/L	110		U		0.4

# APPENDIX B

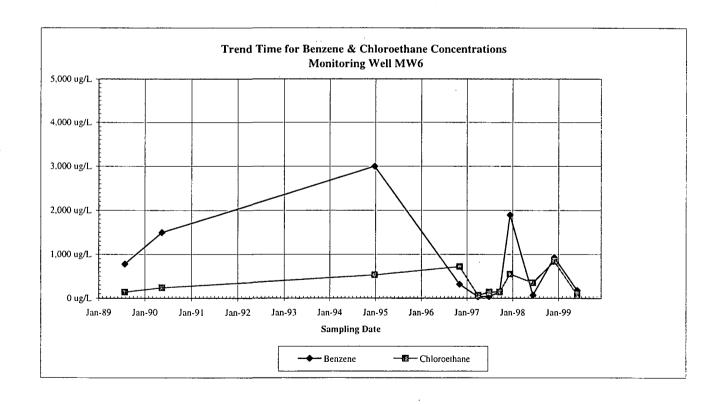
TIME TREND PLOTS

### **Baseline Groundwater Monitoring**

ACS NPL Site

<u>Date</u>	Benzene	Chloroethane
August-89	780 ug/L	140 ug/L
May-90	1,500 ug/L	240 ug/L
December-94	3,000 ug/L	530 ug/L
November-96	320 ug/L	720 ug/L
April-97	35 ug/L	67 ug/L
July-97	39 ug/L	140 ug/L
September-97	140 ug/L	140 ug/L
December-97	1,900 ug/L	550 ug/L
June-98	72 ug/L	350 ug/L
December-98	930 ug/L	840 ug/L
June-99	180 ug/L	78 ug/L
October-99		

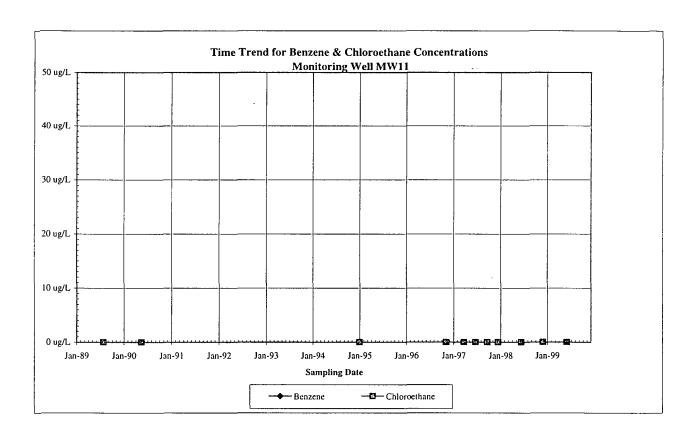
BDL = Below the Detection Limit



ACS NPL Site

<u>Date</u>	<u>Benzene</u>	Chloroethane
August-89	BDL	BDL
May-90	BDL	BDL
January-95	BDL	BDL
November-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit

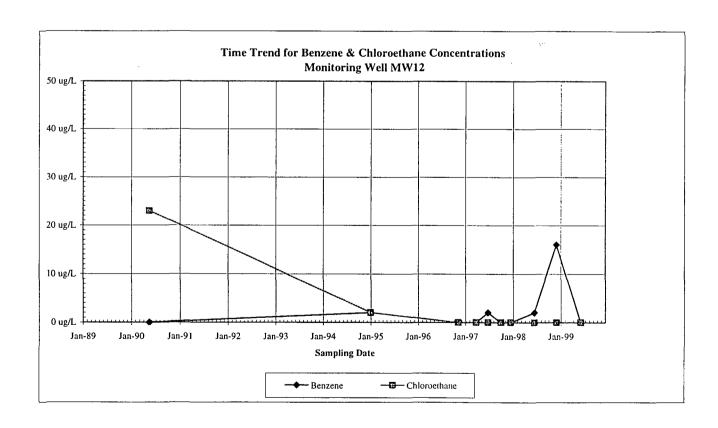


# **Baseline Groundwater Monitoring**

ACS NPL Site

<u>Date</u>	Benzene	Chloroethane
August-89		
May-90	BDL	23 ug/L
January-95	2 ug/L	2 ug/L
November-96	BDL	BDL
March-97	BDL	BDL
June-97	2 ug/L	BDL
October-97	BDL	BDL
December-97	BDL	BDL
June-98	2 ug/L	BDL
December-98	16 ug/L	BDL
June-99	BDL	BDL
October-99		

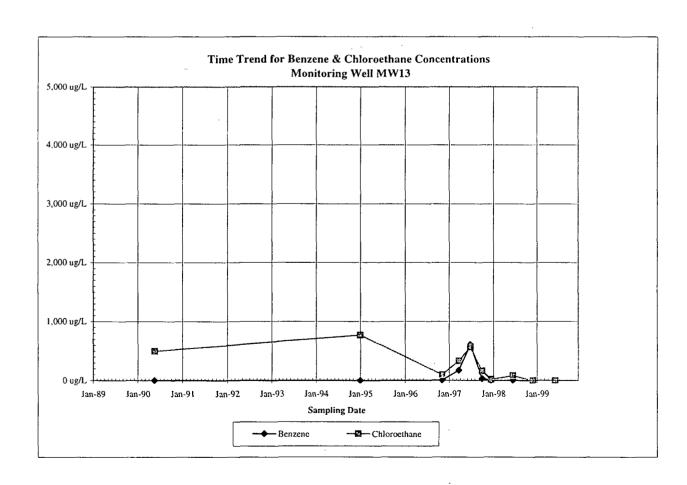
BDL = Below the Detection Limit



ACS NPL Site

<u>Date</u>	Benzene	Chloroethane
August-89		
May-90	2 ug/L	500 ug/L
January-95	BDL.	770 ug/L
November-96	6 ug/L	97 ug/L
March-97	170 ug/L	330 ug/L
June-97	610 ug/L	570 ug/L
October-97	33 ug/L	160 ug/L
December-97	BDL	20 ug/L
June-98	2 ug/L	82 ug/L
December-98	BDL	BDL
June-99	BDL	BDL
October-99		

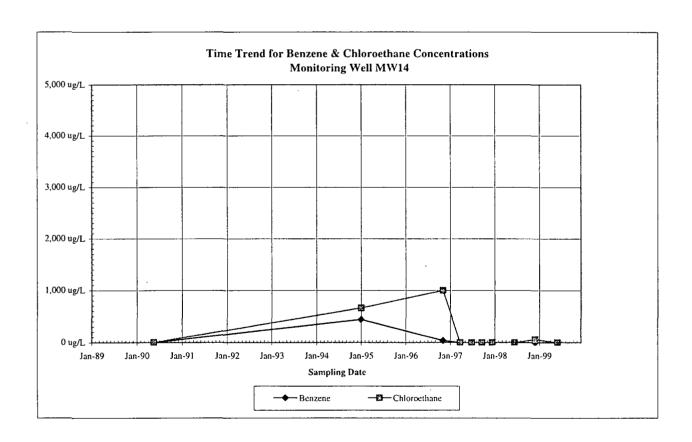
BDL = Below the Detection Limit



ACS NPL Site

<u>Date</u>	<u>Benzene</u>	Chloroethane
August-89		
May-90	2 ug/L	3 ug/L
January-95	440 ug/L	660 ug/L
November-96	41 ug/L	1,000 ug/L
March-97	BDL	BDL
June-97	1 ug/L	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	59 ug/L
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit

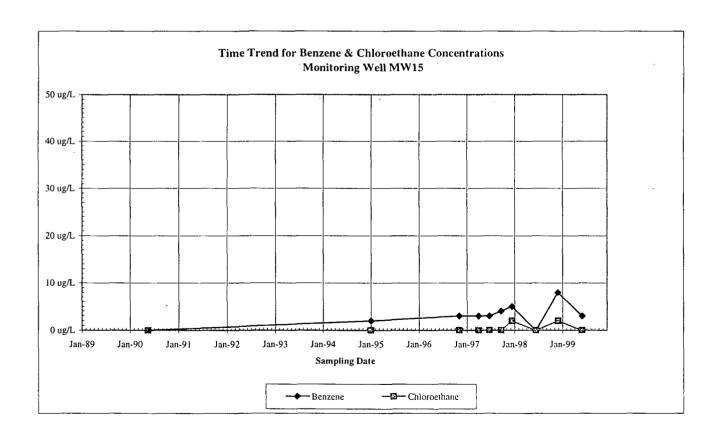


### **Baseline Groundwater Monitoring**

ACS NPL Site

<u>Date</u>	Benzene	Chloroethane
August-89		
May-90	BDL	BDL
January-95	2 ug/L	BDL
November-96	3 ug/L	BDL
April-97	3 ug/L	BDL
June-97	3 ug/L	BDL
September-97	4 ug/L	BDL
December-97	5 ug/L	2 ug/L
June-98	BDL	BDL
December-98	8 ug/L	2 ug/L
June-99	3 ug/L	BDL
October-99		

BDL = Below the Detection Limit

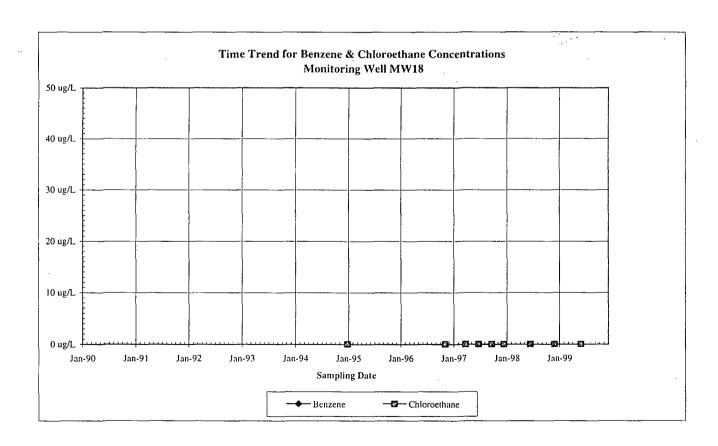


### **Baseline Groundwater Monitoring**

ACS NPL Site

Date	Benzene	Chloroethane
August-89		
May-90		
December-94	BDL	BDL
November-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit

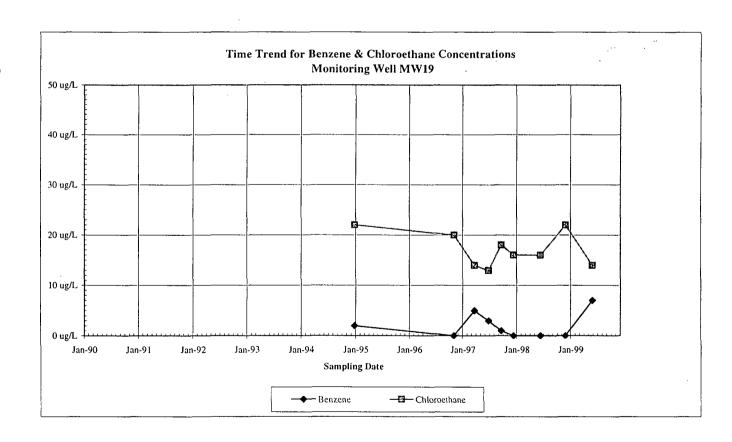


# **Baseline Groundwater Monitoring**

ACS NPL Site

Date	<u>Benzene</u>	Chloroethane
August-89		
May-90		
December-94	2 ug/L	22 ug/L
November-96	BDL	20 ug/L
March-97	5 ug/L	14 ug/L
June-97	3 ug/L	13 ug/L
September-97	l ug/L	18 ug/L
December-97	BDL	16 ug/L
June-98	BDL	16 ug/L
December-98	BDL	22 ug/L
June-99	7 ug/L	14 ug/L
October-99		

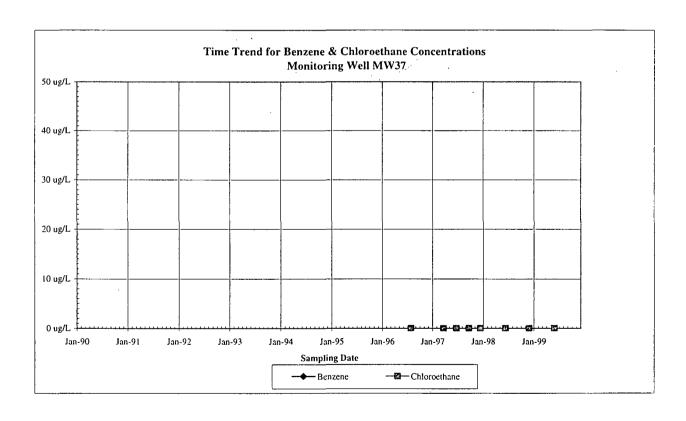
BDL = Below the Detection Limit



ACS NPL Site

<u>Date</u>	<u>Benzene</u>	Chloroethane
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
October-99		

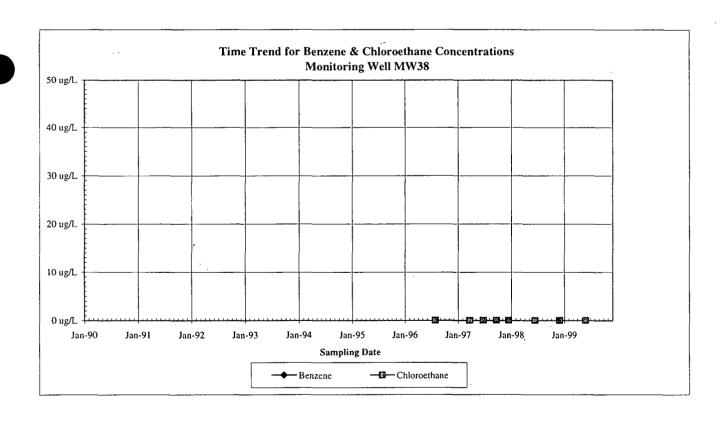
BDL = Below the Detection Limit



ACS NPL Site

<u>Date</u>	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
October-99		

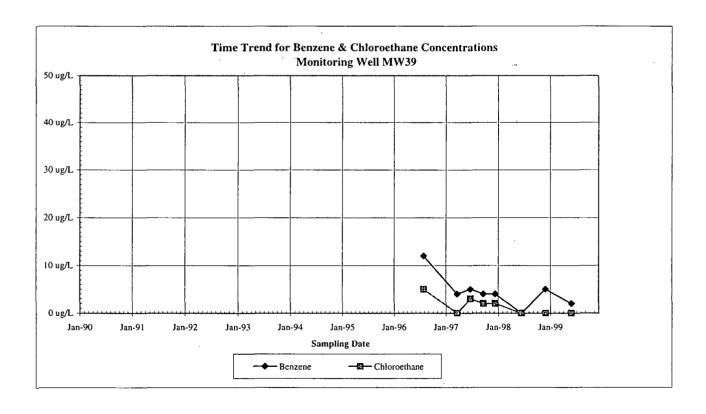
BDL = Below the Detection Limit



ACS NPL Site

<u>Date</u>	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	12 ug/L	5 ug/L
March-97	4 ug/L	BDL
June-97	5 ug/L	3 ug/L
September-97	4 ug/L	2 ug/L
December-97	4 ug/L	2 ug/L
June-98	BDL	BDL
December-98	5 ug/L	BDL
June-99	2 ug/L	BDL
October-99		

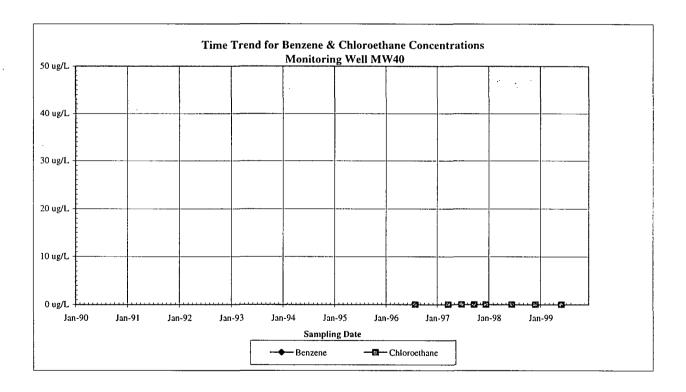
BDL = Below the Detection Limit



ACS NPL Site

<u>Date</u>	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit

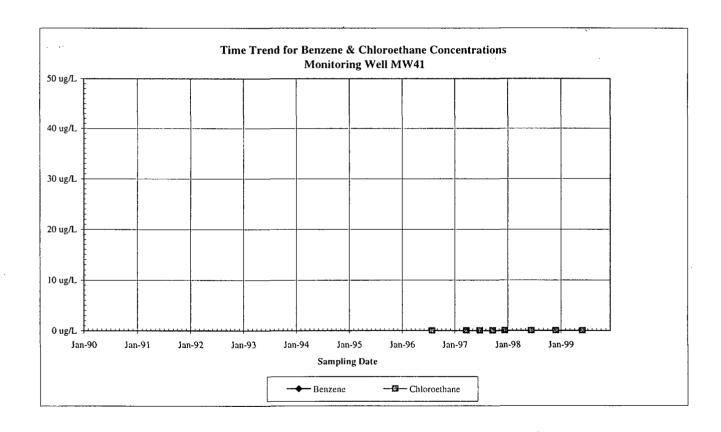


# **Baseline Groundwater Monitoring**

ACS NPL Site

<u>Date</u>	Benzene	Chloroethane	
August-89			
May-90			
December-94			
August-96	BDL	BDL	
March-97	BDL	BDL	
June-97	BDL	BDL	
September-97	BDL	BDL	
December-97	BDL	BDL	
June-98	BDL	BDL	
December-98	BDL	BDL	
June-99	BDL	BDL	
October-99			

BDL = Below the Detection Limit

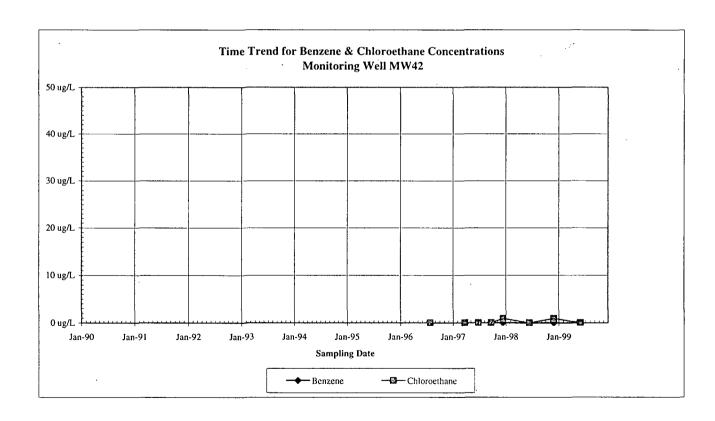


# **Baseline Groundwater Monitoring**

ACS NPL Site

<u>Date</u>	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	6 BDL BI	
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	0.9 ug/L
June-98	BDL	BDL
December-98	BDL	0.9 ug/L
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit

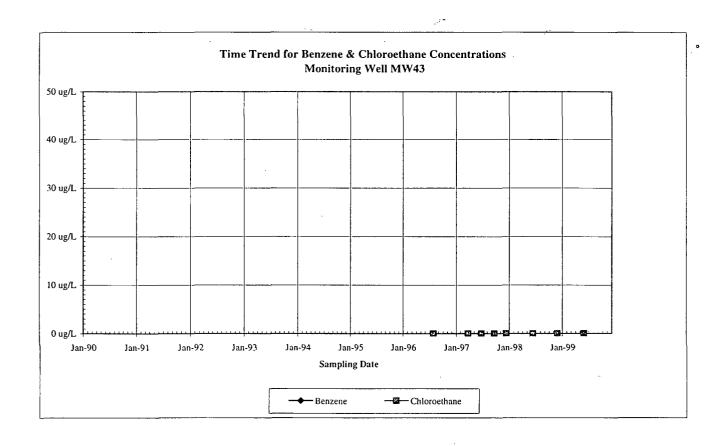


# **Baseline Groundwater Monitoring**

ACS NPL Site

<u>Date</u>	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit



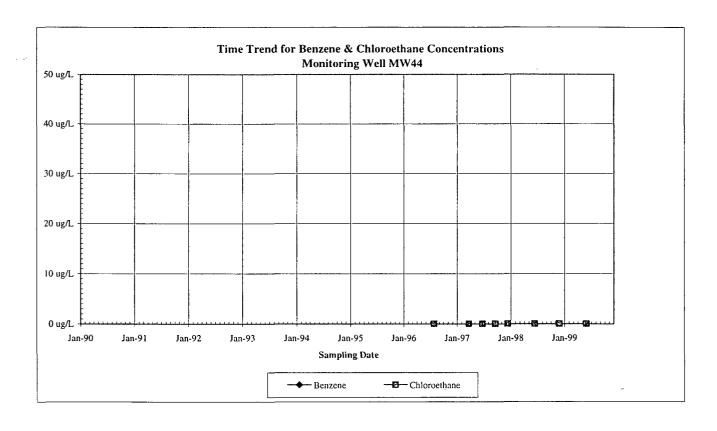
### **Baseline Groundwater Monitoring**

ACS NPL Site

MW44

<u>Date</u>	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL BDL	
October-99		

BDL = Below the Detection Limit

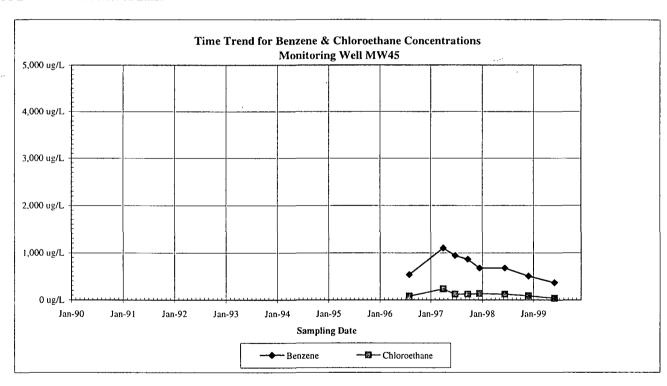


### **Baseline Groundwater Monitoring**

ACS NPL Site

<u>Date</u>	<u>Benzene</u>	Chloroethane	
August-89		··	
May-90			
December-94			
August-96	530 ug/L	82 ug/L	
April-97	1,100 ug/L	230 ug/L	
June-97	940 ug/L	120 ug/L	
September-97	860 ug/L	120 ug/L	
December-97	670 ug/L	130 ug/L	
June-98	670 ug/L	120 ug/L	
December-98	500 ug/L	88 ug/L	
June-99	360 ug/L	38 ug/L	
October-99			

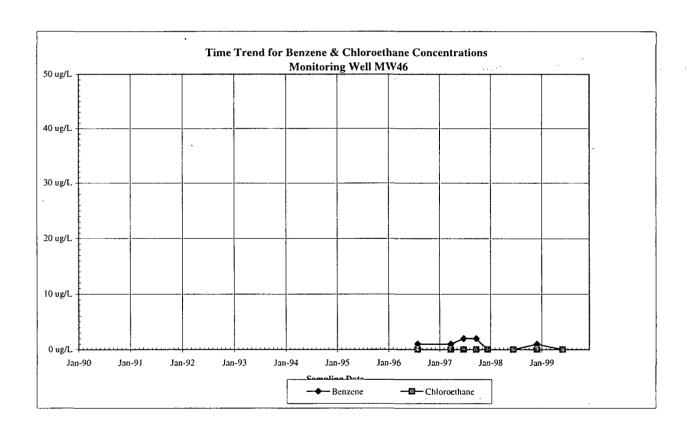
BDL = Below the Detection Limit



ACS NPL Site

<u>Date</u>	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	1 ug/L	BDL
March-97	l ug/L	BDL
June-97	2 ug/L	BDL
September-97	2 ug/L	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	l ug/L	BDL
June-99	BDL	BDL
October-99		

BDL = Below the Detection Limit



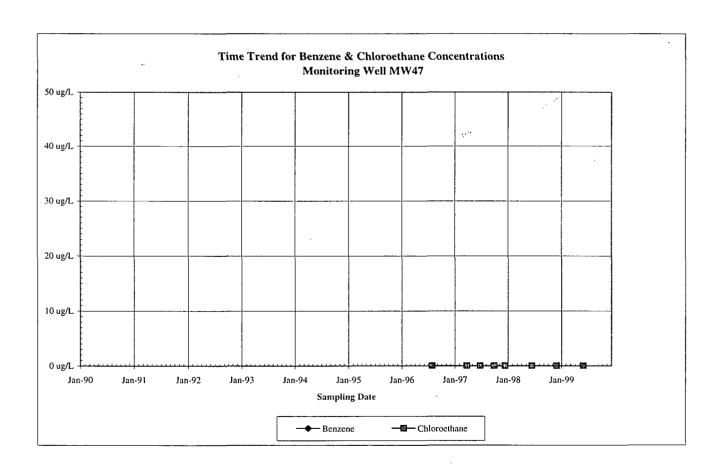
# **Baseline Groundwater Monitoring**

ACS NPL Site

#### MW47

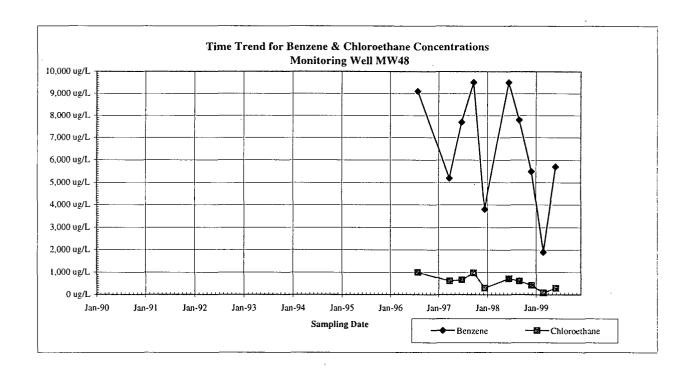
<u>Date</u>	Benzene	Chloroethane	
August-89			
May-90			
December-94		,	
August-96	BDL	BDL	
March-97	BDL	BDL	
June-97	BDL	BDL	
October-97	BDL	BDL	
December-97	BDL	BDL	
June-98	BDL	BDL	
December-98	BDL	BDL	
June-99	BDL	BDL	
October-99			

BDL = Below the Detection Limit



ACS NPL Site

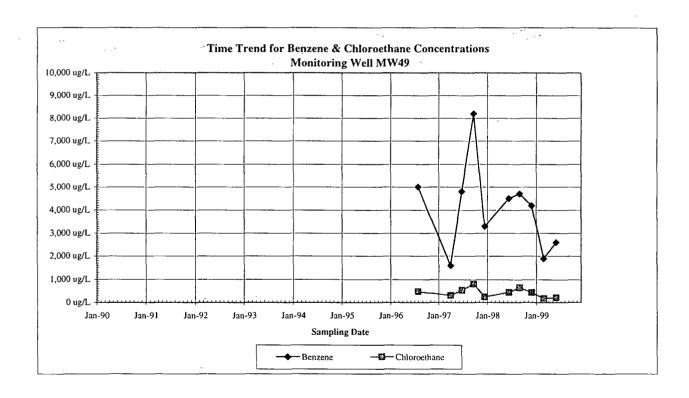
Date	Benzene Chlor	
August-89		
May-90		
December-94		
August-96	9,100 ug/L	1,000 ug/L
March-97	5,200 ug/L	620 ug/L
June-97	7,700 ug/L	670 ug/L
September-97	9,500 ug/L	980 ug/L
December-97	3,800 ug/L	300 ug/L
June-98	9,500 ug/L	720 ug/L
September-98	7,800 ug/L	610 ug/L
December-98	5,500 ug/L	420 ug/L
March-99	1,900 ug/L	83 ug/L
June-99	5,700 ug/L	290 ug/L



### **Baseline Groundwater Monitoring**

ACS NPL Site

<u>Date</u>	Benzene	Chloroethane
August-89		
May-90		
December-94		
August-96	5,000 ug/L	480 ug/L
April-97	1,600 ug/L	310 ug/L
June-97	4,800 ug/L	540 ug/L
September-97	8,200 ug/L	810 ug/L
December-97	3,300 ug/L	250 ug/L
June-98	4,500 ug/L	450 ug/L
September-98	4,700 ug/L	650 ug/L
December-98	4,200 ug/L	440 ug/L
March-99	1,900 ug/L	180 ug/L
June-99	2,600 ug/L	220 ug/L



# Lower Aquifer Monitoring Well: MW9/MW9R

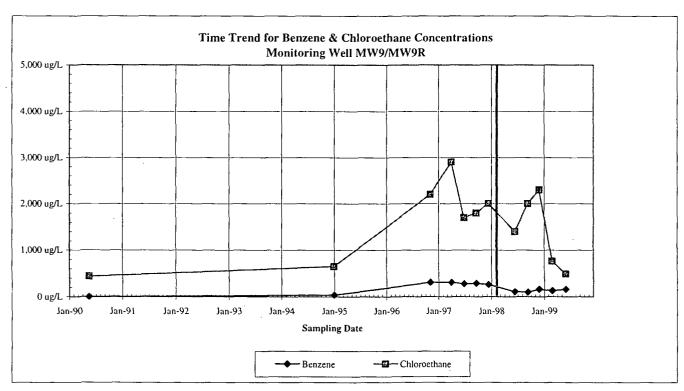
# **Baseline Groundwater Monitoring**

ACS NPL Site

#### MW9/MW9R

<u>Date</u>	te <u>Benzene</u> <u>Chloroet</u>	
August-89		
May-90	BDL	440 ug/L
January-95	40 ug/L	650 ug/L
November-96	310 ug/L	2,200 ug/L
April-97	310 ug/L	2,900 ug/L
June-97	280 ug/L	1,700 ug/L
September-97	290 ug/L	1,800 ug/L
December-97	260 ug/L	2,000 ug/L
June-98	110 ug/L	1,400 ug/L
September-98	100 ug/L	2,000 ug/L
December-98	160 ug/L	2,300 ug/L
March-99	130 ug/L	760 ug/L
June-99	160 ug/L	490 ug/L
	i	

BDL = Below the Detection Limit



Line indicates change to replacement well

# Lower Aquifer Monitoring Well: MW10C

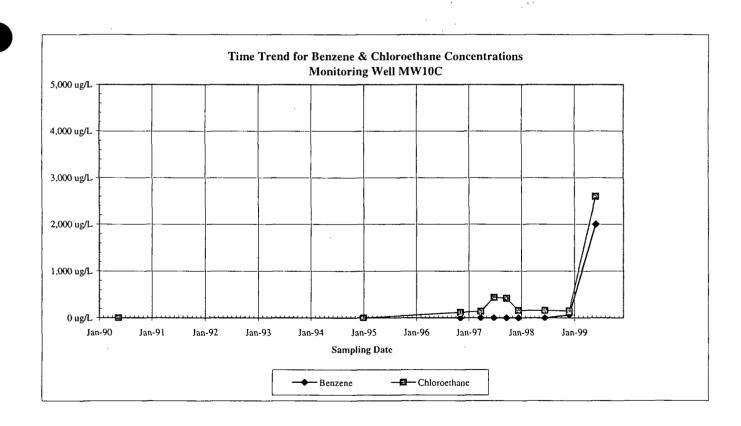
# **Baseline Groundwater Monitoring**

ACS NPL Site

### MW10C

<u>Date</u>	Benzene	Chloroethane
August-89		
May-90	BDL ·	BDL
January-95	BDL	BDL
November-96	BDL	120 ug/L
March-97	BDL	140 ug/L
June-97	BDL	440 ug/L
September-97	BDL	420 ug/L
December-97	BDL	160 ug/L
June-98	BDL	160 ug/L
December-98	66 ug/L	150 ug/L
June-99	2,000 ug/L	2,600 ug/L
October-99		

BDL = Below the Detection Limit



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# **APPENDIX C**

# VALIDATION NARRATIVE AND LABORATORY REPORTS FROM UPPER AQUIFER

#### **VALIDATION NARRATIVE**

**Project:** 

ACS - quarterly GW sampling

Analysis:

Number: 12

1252042

Matrix:

VOCs Water

Validated by:

TJW

**Date:** 8/

8/18/99

**SDG:** 00002

This narrative summarizes the results of the data validation of twenty groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by CompuChem for volatile organic compounds (VOCs) following Contract Laboratory Program (CLP) procedures. Data validation was performed using the USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994). Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please refer to Table 1-2 for a summary of qualified data.

Holding Time: All samples were analyzed within the acceptable holding times.

Instrument Performance: All instrument performance criteria were met.

Calibration: Acetone had a high percent recovery (%R) and percent relative standard deviation (%RSD) in the initial calibration. Acetone is a typical "poor responder" and no data are qualified.

In the continuing calibration (CCAL) on 6/22/99 (20: 57) 2-Butanone, 4-methyl-2-pentanone, and 2-Hexanone had percent differences (%D) greater than acceptable quality control (QC) limits. These three compounds are typical poor responders. The only sample/compound with positive results was FB01-09 / 2-Butanone.

In the CCAL on 6/23/99 (19:24), 2-Butanone, 2-Hexanaone, and 4-methyl-2-pentanone had %D outside QC limits. These three compounds are also typical poor responders. The only positive reslut is for 2-Hexanone in MW48-09DL.

Due to the nature of the compounds ("typical poor responders"), no data are qualified based on the calibrations.

**Blanks:** Acetone concentrations in 14 samples are estimated due to detection in the method blank. Additionally, 2-Butanone and 2-Hexanone were detected in method blanks The associated positive results are flagged "J," and are listed in Table 1-2.

Both trip blanks had positive results for methylene chloride (4 ug/L) and Acetone (3 ug/L). Positive results for methylene chloride below 20 ug/L are estimated and flagged "J."

The field blank (FB01-09) had positive results for methylene chloride, acetone, chloroform, and 2-butanone. Acetone and 2-butanone were detected in the method blanks and no additional qualifications for these compounds in the field blank are necessary. Methylene chloride is a common laboratory contaminant and positive results have already been estimated and flagged "J" by the laboratory. Chloroform was present in the field blank at 1 ug/L. No positive results for chloroform are reported, and no data are qualified.

Surrogates: All surrogate compounds met the required QC acceptance criteria.

Matrix Spikes: All matrix spike and matrix spike duplicates met the required OC acceptance criteria.

**Field duplicates:** Methylene chloride and acetone were the only detected compounds in the field duplicates (MW44-09 and MW44-99). The relative percent differences (RPDs) were above the acceptable limits. However, due to detected concentrations in the blanks (see discussion above) and the nature of the compounds (common laboratory contaminants), no data are qualified due to field duplicate RPDs.

Internal Standards: Internal standard areas and retention times were within acceptable QC limits.

Compound Identification: VOC target compound qualitative identification criteria, including relative retention times and mass spectra criteria were acceptable.

System Performance: VOC system performance resolution and peak shape was acceptable.

Sample Results: The overall data quality of the laboratory was acceptable. It appears there may be some common background laboratory contamination (i.e. methylene chloride and acetone). However, the background contamination is not expected to influence data usability.

Table 1-2
Summary of Qualified VOC Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
MW48-09DL	2-hexanone		J	CCAL % D was outside QC limits, and compound was detected in the method blank.
FB01-09	Methylene chloride		Ť	Detection of compound in trip blank.
1 001-09	2-butanone		Ţ	CCAL %D was outside QC limits, and compound detected in method blank.
	acetone		Ţ	Compound detected in the method blank.
TB01-09	Acetone		ī	Compound detected in the method blank.  Compound detected in the method blank.
MW18-09	Acetone		J	Compound detected in the method blank.
141 44 10-07	methylene chloride		I	Compound detected in the trip blank.
MW38-09	Acetone		ī	Compound detected in the method blank.
141 11 50 07	methylene chloride		Ī	Compound detected in the trip blank.
MW39-09	Acetone		Ī	Compound detected in the method blank.
111 11 37 07	methylene chloride		I	Compound detected in the trip blank.
MW28-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		Ī	Compound detected in the trip blank.
MW31-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW32-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW54R-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW55-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW44-09	Acetone		J	Compound detected in the method blank, and duplicate RPDs above QC limits
	methylene chloride		J	Compound detected in the trip blank, and duplicate RPDs above QC limits.
MW4D-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW-42-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.

Table 1-2
Summary of Qualified VOC Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration Qualifier (µg/L)	s Reason
MW41-09	Methylene chloride	J	Compound detected in the trip blank.
MW44-99	Acetone	J	Compound detected in the method blank, and duplicate RPDs above QC limits.
	methylene chloride	J	Compound detected in the trip blank, and duplicate RPDs above QC limits.
MW08-09	Methylene chloride	J	Compound detected in the trip blank.
MW48-09	Methylene chloride	J	Compound detected in the trip blank.

J Data are considered estimated

#### VALIDATION NARRATIVE

**Project:** ACS – quarterly GW sampling

Analysis: SVOCs

Number: 1252042

W Date:

Matrix: Water

Validated by: TJW

**Date:** 8/18/99 **SDG:** 00002

This narrative summarizes the results of the data validation of sixteen groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by CompuChem for semi-volatile organic compounds (SVOCs) following Contract Laboratory Program (CLP) procedures. Data validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994)*. Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please refer to Table 1-1 for a summary of qualified data.

Holding Time: Eleven of the sixteen samples were originally extracted within holding times. Due to poor surrogate recoveries and internal standard responses in the method blank extracted with these samples, these eleven samples had to be re-extracted. The re-extraction was performed outside of holding time requirements. The re-extracted data is technically more accurate and will be considered the proper results with qualifications for holding times. The remaining five samples were extracted and analyzed within acceptable holding times.

Positive results for the re-extracted data is estimated and flagged "J." Non-detected results for the re-extracted data is estimated "UJ."

Instrument Performance: All SVOC instrument tuning criteria were acceptable.

Calibration: In the initial calibration related to samples MW48-09 and MW38-09, four compounds had percent relative standard deviations (%RSD) above the acceptable limit. No positive results were reported for these four compounds, and no data are qualified.

In the continuing calibrations several compounds were reported with percent differences (%D) above the acceptable limits. None of the compounds had positive results in the affected samples, and no data are qualified.

Blanks: One internal standard (Perylene-d12) and five surrogates were outside acceptance limits in the method blank (lab ID: SBLKDS) associated with the following ten samples: MW40-09, MW31-09, MW32-09, MW41-09, MW42-09, MW44-09, MW54-09, MW55-09, and MW08-09. These samples were re-extracted and a new method blank was re-analyzed. One compound, bis (2-Ethylhexyl) phthalate, was detected at a concentration of 1 ug/L in the method blank associated with the re-extracted samples. No positive results for this compound were reported, and no data are qualified.

One compound, Di-n-butylphthalate, was detected at a concentration of 1 ug/L in the method blank associated with the following samples: MW38-09RE, MW18-09RE, MW48-09 (diluted and undiluted), FB01-09, and MW28-09. No positive results for this compound were reported, and no data are qualified.

One compound, bis (2-Ethylhexyl) phthalate, was detected at a concentration of 1 ug/L in the method blank associated with sample MW39-09RE. No positive results for this compound were reported, and no data are qualified.

In other method blanks, several tentatively identified compounds (TICs) were identified. No data is qualified due to TICs in the method blanks.

The field blank (FB01-09) had a positive result for bis (2-Ethylhexyl) phthalate at a concentration of 2 ug/L. Samples results for this compound less than 10 ug/L are estimated and flagged "J."

**Surrogates:** All surrogate recoveries for all samples and blanks (re-extracted when applicable) are within quality control (QC) limits with the exception of two surrogates in MW38-09RE. One surrogate relates to the base/neutral SVOCs, and one surrogate relates to the acid SVOCs. No data in this sample is qualified because at least two surrogates from each fraction of SVOCs must be outside QC limits in order to qualify data.

Matrix Spikes: Sample MW42-09 was submitted with extra volume for use as the matrix spike (MS) and matrix spike duplicate (MSD). The MS/MSD recoveries for 4-Nitrophenol and Pentachlorophenol were high. According to the validation guidance document, data is not qualified on MS/MSD data alone.

Field duplicates: In the field duplicates (MW44-09RE/MW44-99RE), the only compound detected was bis (2-Ethylhexyl) phthalate in MW44-09RE. The relative percent difference (RPD) is approximately 200%, which is above acceptable limits. The detected compound is considered estimated, and is flagged "J."

**Internal Standards:** Responses from internal standards in two samples require that some data be qualified and rejected. In sample MW38-09RE, the response for internal standard Perylene-d12 is below 10% of the continuing calibration response. Compounds associated with Perylene-d12 in MW38-09RE are rejected. Additionally in the analysis of MW38-09RE, the response for the internal standard Acenaphthene-d10 is between 10% and 50% of the continuing calibration response. Compounds associated with Acenaphthene-d10 in MW38-09RE are qualified as estimated and flagged "J" for positive results and "UJ" for non-detected results.

In the analysis of sample MW18-09RE, the response for internal standard Perylene-d12 is between 10% and 50% of the continuing calibration response. Compounds associated with Perylene-d12 in MW18-09 are qualified as estimated and flagged "J" for detected results and "UJ" for non-detected results.

**Compound Identification:** SVOC target compound qualitative identification criteria, including relative retention times and mass spectra criteria were acceptable.

System Performance: SVOC system performance resolution and peak shape was acceptable.

Sample Results: Generally, data quality by the laboratory was acceptable. Although QC problems encountered during the validation procedures required some data to be rejected, these qualifications are not expected to drastically influence data usability. QC issues discovered during validation of this data will be addressed with the laboratory and specific corrective actions will be outlined to reduce the likelihood of such QC issues in the future.

Table 1-1
Summary of Qualified SVOC Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration	Qualifiers	Reason
<del></del>		(μ <b>g/L</b> )		
MW38-09RE	2,4,6-Trichlorophenol	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2,4,5-Trichlorophenol	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2-Chloroaphthalene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2-Nirtoaniline	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Acenaphthylene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2,6-Dinitrotoulene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	3-Nitroaniline	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Acenaphthene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2,4-Dinitrophenol	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	4-Nitrophenol	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Dibenzofuran	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2,4-Dinitrotoulene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Diethylphthalate	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	4-Chlorophenyl-phenylether	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Fluorene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	4-Nitroaniline	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Benzo(b)fluoranthene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW38-09RE	Benzo(k)fluoranthene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW38-09RE	Benzo (a) pyrene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW38-09RE	Dibenzo (a,h) anthracene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW38-09RE	Benzo (g,h,i) perylene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW18-09RE	Benzo(b)fluoranthene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
MW18-09RE	Benzo(k)fluoranthene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
MW18-09RE	Benzo (a) pyrene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
MW18-09RE	Dibenzo (a,h) anthracene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
MW18-09RE	Benzo (g,h,i) perylene	<10	$\mathbf{U}\mathbf{J}$	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
FB01-09	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit. Therefore, the concentration is estimated.
MW44-09RE	Bis (2-Ethylhexyl) phthalate	6 ·	J	Below the reporting limit, present in the field blank, Duplicate RPDs are above

Table 1-1 Summary of Qualified SVOC Data for ACS Quarterly Groundwater Monitoring (SDG0002 - June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
		···		acceptance limits, and holding time was exceeded. Therefore, the concentration is estimated.
MW42-09RE	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW55-09RE	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW32-09RE	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW31-09RE	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW40-09RE	Bis (2-Ethylhexyl) phthalate	1	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW28-09	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit and present in the field blank. Therefore, the concentration is estimated.

The following is a list of samples which are qualified due to re-extraction outside holding times. No positive results were reported, other than those listed above. Therefore, all results are qualified as estimated and flagged "UJ."

MW40-09RE	MW55-09RE
MW31-09RE	MW44-99RE
MW39-09RE	MW54-09RE
MW32-09RE	MW44-09RE
MW41-09RE	MW42-09RE
MW08-09RE	

J Data are considered estimated

UJ The compound was analyzed for, but not detected. The reported detection limit is estimated because quality control criteria were not met.

R The sample results are rejected (analyte may or may not be present) due to gross deficiencies in quality control criteria. Any reported value is unusable. Sample Ids with an "RE" at the end are the results for the re-extracted analyses.

#### VALIDATION NARRATIVE

**Project:** 

ACS – quarterly GW sampling

**Analysis:** 

Pest/PCBs

Water

Number:

34100

Matrix:

Validated by: JFW

Date:

10/11/99

**SDG:** 00002

This narrative summarizes the results of the data validation of sisxteen groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by CompuChem for pesticides and polychlorinated biphenyls (PCBs) following Contract Laboratory Program (CLP) procedures. Data validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994)*. Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please refer to Table 1-1 for a summary of qualified data.

Holding Time: All samples were analyzed within specified holding times.

Instrument Performance: Not applicable.

Calibration: Initial and continuing calibration criteria were met for all analytical sequences.

Blanks: Methods blanks, trip blanks and field blanks were free of target analytes.

Surrogates: All surrogate recoveries for all samples and blanks were within quality control (QC) limits with the exception of tetrachlorometaxylene in MW48-09 and decachlorobiphenyl in FB01-09. Sample ID MW48-09 was not qualified since surrogate recovery was above acceptance limits and the sample was free of target analytes. All analytes in sample ID FB01-09 were qualified with UJ since reporting limits are estimates due to the low surrogate recovery.

Matrix Spikes: Sample ID ACSGWMW44-09 was selected for MS/MSD analyses. All percent recoveries were within acceptance limits.

**Field Duplicate:** The field duplicate pair, ACSGWMW44-09/ACSGWMW44-99 had no detectable target analytes above the reporting limit.

Internal Standards: Not applicable.

Compound Identification: Pesticides were qualitatively confirmed using second column GC. However, the percent difference between the primary column and secondary column concentrations exceeded 25%. Samples are qualified with a P to denote the lack of quantitative confirmation.

Samples were free of PCBs.

**System Performance:** GC system performance resolution and peak shape was acceptable.

**Sample Results:** Laboratory data quality was acceptable. Some pesticides were qualified as estimates since the results were below the reporting limit.

Table 1-1 Summary of Qualified Pesticide and PCB Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration	Qualifiers	Reason
	4.4.4	(µg/L)	•	
ACSGWMW31-09	Beta-BHC	0.014	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW31-09	Delta-BHC	0.0013	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW44-09	Aldrin	0.0018	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW44-09	Heptachlor epoxide	0.0011	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW44-09	Gamma-Chlordane	0.0011	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW44-99	Heptachlor	0.0023	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW55-09	Beta-BHC	0.016	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW55-09	Delta-BHC	0.0023	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
·MW18-09	Methoxychlor	0.01	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW28-09	Alpha-chlordane	0.0025	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Delta-BHC	0.0056	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Heptachlor	0.0083	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Dieldrin	0.0074	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	4,4'-DDE	0.0086	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.

Table 1-1 Summary of Qualified Pesticide and PCB Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration	Qualifiers	Reason
		(μg/L)		
MW38-09	Methoxychlor	0.11	J	Below the reporting limit. Therefore, the concentration is estimated.
MW38-09	Endrin	0.0068	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Endosulfan sulfate	0.027	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	4,4'-DDT	0.068	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Endrin Ketone	0.0064	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Gamma-chlordane	0.0083	J	Below the reporting limit. Therefore, the concentration is estimated.
MW48-09	Alpha-BHC	0.011	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW48-09	Heptachlor	0.0018	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
FB01-09	All Pest/PCBs	ND	UJ	Surrogate percent recovery below acceptance limits. Therefore, reporting limits are estimates.

Data are considered estimated

P Greater than 25% difference for detected concentrations between two columns.

UJ The compound was analyzed for, but not detected. The reported detection limit is estimated because quality control criteria were not met.

#### **VALIDATION NARRATIVE**

**Project:** 

ACS - quarterly GW sampling

Analysis:

Metals Water

Number:

1252042

8/2099 Date:

Matrix:

Validated by: TJW

SDG:

00002

This narrative summarizes the results of the data validation of twenty groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by CompuChem for metals following Contract Laboratory Program (CLP) procedures. Data validation was performed using the USEPA Contract Laboratory Program National Functional Guidelines of Inorganic Analysis Review (February 1994). Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please refer to Table 1-3 for a summary of qualified data.

Holding Time: All samples were analyzed within the acceptable holding times.

Calibration: Initial and continuing calibrations met the acceptable quality control limits.

Laboratory Control Sample: The laboratory control sample met acceptable quality control limits.

Blanks: Some target metals were detected in the method and calibration blanks. Positive results less than 5 times the concentration of the target metal in the blank are considered not detected, and they are flagged "U."

Matrix Spikes: All matrix spike and matrix spike duplicates met the required quality control acceptance criteria.

Field duplicates: Several compounds detected in the field duplicate samples (MW44-09/MW44-99) had relative percent differences (RPDs) greater than the acceptable limits. Positive results for these compounds are considered estimated, and they are flagged "J."

ICP/AA Quality Control: A serial dilution was performed on sample MW18-09. The serial dilution percent differences for several compounds were above the 10% acceptance limit. However, no positive results for these compounds were reported, and no data are qualified.

Interference check sample recoveries were within the acceptable limits.

The method of standard additions and post-digestion spikes were not required.

Compound Quantitation: Metals target compound qualitative identification criteria were acceptable.

Sample Results: The overall data quality of the laboratory was acceptable. The laboratory narrative indicates that there was a physical or chemical interference in the analyses for potassium. Results for potassium are estimated and flagged "J."

Table 1-3
Summary of Qualified Metals Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
ATMW4D-09	Aluminum	296	U	The compound was detected in the method blank (MB).
	Beryllium	0.29	U	The compound was detected in the method blank (MB).
	Cobalt	0.97	U	The compound was detected in the continuing calibration blank (CCB).
	Copper	2.7	U	The compound was detected in the CCB.
	Lead	2.0	U	The compound was detected in the CCB.
	Nickel	10.4	U	The compound was detected in the CCB.
	Cyanide	4.7	U	The compound was detected in the CCB.
MW12-09	Lead	1.6	U	The compound was detected in the CCB.
MW31-09	Aluminum	34.5	U	The compound was detected in the CCB.
	Arsenic	3.5	U	The compound was detected in the CCB.
	Cobalt	1.4	U	The compound was detected in the CCB.
	Lead	2.6	U	The compound was detected in the CCB.
	Nickel	8.2	U	The compound was detected in the CCB.
	Zinc	1.3	U	The compound was detected in the CCB.
MW32-09	Aluminum	27.7	U	The compound was detected in the CCB.
	Beryllium	0.23	U	The compound was detected in the CCB.
	Cobalt	0.92	U	The compound was detected in the CCB.
	Copper	1.7	U	The compound was detected in the CCB.
	Lead	1.2	U	The compound was detected in the CCB.
	Nickel	0.57	U	The compound was detected in the CCB.
MW40-09	Lead	3.4	U	The compound was detected in the CCB.
MW41-09	Aluminum	99.2	U	The compound was detected in the CCB.
	Antimony	1.4	U	The compound was detected in the method blank (MB).
	Cobalt	1.7	U	The compound was detected in the CCB.
	Copper	4.2	U	The compound was detected in the CCB.
	Lead	1.3	U	The compound was detected in the CCB.
	Nickel	4.7	U	The compound was detected in the CCB.
MW42-09	Arsenic	2.3	U	The compound was detected in the method blank (MB).

Table 1-3
Summary of Qualified Metals Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
	Cobalt	1.4	U	The compound was detected in the CCB.
	Copper	1.7	U	The compound was detected in the CCB.
MW44-09	Arsenic	7.3	U	The compound was detected in the method blank (MB).
	Cobalt	0.51	U	The compound was detected in the CCB.
	Copper	2.3	U	The compound was detected in the CCB.
	Iron	1700	J	Duplicate RPD >20%.
	Nickel	3.1	U	The compound was detected in the CCB.
MW44-99	Aluminum	38.9	U	The compound was detected in the CCB.
	Arsenic	17.2	J	Duplicate RPD >20%.
	Beryllium	0.21	U	The compound was detected in the CCB.
	Chromium	48.2	J	Duplicate RPD >20%.
	Cobalt	0.43	U	The compound was detected in the CCB.
	Copper	4.1	U	The compound was detected in the CCB.
	Iron	5810	J	Duplicate RPD >20%.
	Lead	1.8	U	The compound was detected in the CCB.
	Nickel	5.4	U	The compound was detected in the CCB.
MW54R-09	Aluminum	63.8	U	The compound was detected in the CCB.
	Arsenic	1.8	U	The compound was detected in the CCB.
	Cobalt	1.0	U	The compound was detected in the CCB.
	Copper	1.7	U	The compound was detected in the CCB.
	Lead	2.0	U	The compound was detected in the CCB.
	Nickel	3.2	U	The compound was detected in the CCB.
MW55-09	Aluminum	182	U	The compound was detected in the CCB.
	Arsenic	2.1	U	The compound was detected in the CCB.
	Beryllium	0.26	U	The compound was detected in the CCB.
	Cobalt	1.8	U	The compound was detected in the CCB.
	Copper	5.9	U	The compound was detected in the CCB.
	Lead	2.0	U	The compound was detected in the CCB.
MW8-09	Aluminum	88.5	U	The compound was detected in the CCB.

Table 1-3
Summary of Qualified Metals Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration	Qualifiers	Reason
		(μg/L)		<u> </u>
	Beryllium	0.26	U	The compound was detected in the CCB.
	Cobalt	1.1	U	The compound was detected in the CCB.
	Copper	1.7	U	The compound was detected in the CCB.
	Lead	1.5	U	The compound was detected in the CCB.
	Nickel	3.2	U	The compound was detected in the method blank (MB).
	Zinc	0.97	U	The compound was detected in the CCB.
FB01-09	Aluminum	27.2	U	The compound was detected in the CCB.
	Antimony	1.3	U	The compound was detected in the CCB.
	Beryllium	0.27	U	The compound was detected in the CCB.
	Calcium	58.4	· U	The compound was detected in the CCB.
	Cobalt	0.93	U	The compound was detected in the CCB.
	Copper	0.40	U	The compound was detected in the CCB.
	Iron	22.1	U	The compound was detected in the CCB.
	Lead	1.1	U	The compound was detected in the CCB.
	Zinc	2.3	U	The compound was detected in the CCB.
MW18-09	Aluminum	13.3	U	The compound was detected in the CCB.
	Antimony	3.3	U	The compound was detected in the CCB.
	Cadmium	0.94	U	The compound was detected in the CCB.
	Cobalt	2.5	U	The compound was detected in the CCB.
	Copper	3.2	U	The compound was detected in the CCB.
	Vanadium	1.1	U	The compound was detected in the CCB.
MW28-09	Aluminum	265	U	The compound was detected in the CCB.
	Cadmium	0.60	U	The compound was detected in the CCB.
	Cobalt	3.1	U	The compound was detected in the CCB.
	Copper	12.9	U	The compound was detected in the CCB.
•	Lead	4.2	U	The compound was detected in the CCB.
	Zinc	4.6	U	The compound was detected in the CCB.
MW38-09	Aluminum	68.4	U	The compound was detected in the CCB.
	Antimony	1.3	U	The compound was detected in the CCB.

Table 1-3 Summary of Qualified Metals Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
	Cadmium	0.45	U	The compound was detected in the CCB.
	Cobalt	5.4	U	The compound was detected in the CCB.
	Copper	13.4	U	The compound was detected in the CCB.
	Lead	1.3	U	The compound was detected in the CCB.
	Nickel	11.7	U	The compound was detected in the CCB.
	Zinc	21.0	U	The compound was detected in the CCB.
MW39-09	Aluminum	25.0	U	The compound was detected in the CCB.
	Beryllium	0.12	U	The compound was detected in the CCB.
	Cadmium	0.74	U	The compound was detected in the CCB.
	Cobalt	1.2	U	The compound was detected in the CCB.
	Copper	0.63	U	The compound was detected in the CCB.
	Lead	1.0	U	The compound was detected in the CCB.
	Vanadium	0.48	U	The compound was detected in the CCB.
MW48-09	Aluminum	119	U	The compound was detected in the CCB.
	Antimony	1.8	U	The compound was detected in the CCB.
	Arsenic	4.0	U	The compound was detected in the CCB.
	Beryllium	0.13	U	The compound was detected in the CCB.
	Cobalt	1.9	U	The compound was detected in the CCB.
	Copper	2.3	U	The compound was detected in the CCB.
	Vanadium	2.0	U	The compound was detected in the CCB.
	Zinc	4.3	U	The compound was detected in the CCB.

J Data are considered estimated
 U The analyte is not detected in the sample.

### MEMORANDUM



To:

Trisha Woolslayer, MW

Date:

August 24, 1999

From:

Gilbert Dimidjian, MW

Job No.:

1252042

Subject:

Data Validation for American

SDG:

.003

Chemical Service (ACS). Griffith, Indiana.

June 1999

#### INTRODUCTION

The following text is based on the validation of water samples collected at American Chemical Service, Inc. in June of 1999.

Nine water samples and two field quality assurance samples were analyzed by CompuChem Laboratories, Cary, North Carolina for the following parameters:

- VOA's by CLP OLM 3.0
- SVOA's by CLP OLM 3.0
- Pesticides/PCB's by CLP OLM 3.0
- Inorganics by CLP ILM04.0
- Cyanide by CLP ILM04.0

Data validation was conducted in accordance with procedures specified in *Pre-Design Activities Quality Assurance Project Plan (MW, 1995), National Functional Guidelines for Organic Data Review (USEPA, 1994a), and National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).* 

The following field quality control samples were collected during the June 1999 sampling round:

Two field duplicates: M4S-99 duplicate of M4S-09; and MW06-99 duplicate of MW06-09.

This memorandum contains a narrative summarizing the data quality objectives specified in the work plan, and provides a table of qualified data (Table 1-1 and 1-2) and supporting validation documentation (Attachment A).

#### **SUMMARY**

This section describes the quality control parameters reviewed during validation, summarizes the data quality objectives as a result of the validation and provides a summary of the deficiencies and qualification applied. The following paragraphs describe deficiencies that were identified which resulted in qualification of the sample results. Each analysis is separated into sections for clarity.

### **Volatile Organic Componds**

<u>Major Deficiencies</u>: The following paragraphs describe the major deficiencies identified during the validation process.

#### Holding Time

• Sample MW19-09 was received at a pH of 5, and therefore the sample was required to be analyzed within 7 days. Subsequently, the sample was analyzed 7 days pass the required holding time. All positive results were qualified as an estimate "J" and non-detects were qualified as "UJ".

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

#### Initial Calibration

• The initial calibration (on 6/20/99; 1249) %RSD for acetone (51.5 percent) were above the control limit of 30 percent. All positive results were qualified as an estimate "J" for acetone.

#### Continuing Calibration

- The continuing calibration (CS990623B57) for 2-butanone (31.5 percent), 4-methyl-2-pentanone (25.9 percent), and 2-hexanone had a percent difference that exceeded the control limit of ±25 percent. The associated samples were MW50-09, MW19-09, MW45-09, M4S-09, M4S-99, and M15-09. All positive results were qualified as an estimate "J" and non-detects as "UJ".
- The continuing calibration (CS990629A57) for chloromethane (25.9 percent) had a percent difference that exceeded the control limit of ±25 percent. The associated samples were MW14-09, MW09R-09, MW06-99, MW06-09, and MW10C-09. All positive results were qualified as an estimate "J" and non-detects as "UJ".
- The continuing calibration (CS990629B57) for 2-butanone (30.4 percent) and 1,1,2,2-tetrachloroethane (31.3 percent) had a percent difference that exceeded the control limit of ±25 percent. No qualification was required because no samples were associated with this calibration.

### Semi-Volatile Organic Compounds

Major Deficiencies: The following paragraphs describe the major deficiencies identified during the validation process.

#### Holding Time

• Samples MW19-09RE, MW45-09RE, and MW50-09RE were extracted pass holding times (20 days). All positive results were qualified as estimate "J" and non-detects as "UJ". These were reanalysis samples.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

#### **Initial Calibration**

- The initial calibration (on 6/30/99; 2221) %RSD for 2,4-dinitrophenol (36.1 percent) exceeded the control limit of 30 percent. All positive results were qualified as estimate "J" and non-detects as "UJ". The associated samples were MW50-09RE, MW19-09RE, and MW45-09RE.
- The initial calibration (on 7/20/99; 1006) %RSD for 2,4-dinitrophenol (33.6 percent) exceeded the control limit of 30 percent. No qualification was required because no samples were associated with this calibration.

#### Continuing Calibration

- Continuing calibration HG990622A66 had a percent difference for 1-chloropropane (26.3 percent), nitrobenzene (34.1 percent), 4-nitrophenol (30 percent), pentachlorophenol (38.7 percent), and 3,3-dichlorobenzidine (40.4 percent) that exceeded the control limit of 25 percent. All positive results were qualified as estimate "J" and non-detects "UJ". The associated samples included MW09R-09, MW06-99, MW14-09, MW06-09, and MW10C-09.
- Continuing calibration HG990709A66 had a percent difference for 2-methylphenol (27.1 percent), n-nitroso-di-n-propylamine (27.6 percent), 2,6-dinitrotoluene (26.6 percent), 2,4-dinitrophenol (28.6 percent), and 2,4-dinitrotoluene (31.4 percent) that exceeded the control limit of 25 percent. All positive results were qualified as estimate "J" and non-detects "UJ". The associated samples included MW50-09RE, MW19-09RE, and MW45-09RE.
- Continuing calibration HG990706B70 had a percent difference for 2-methylnaphthalene (26.1 percent), 4-nitroaniline (27.6 percent), carbazole (36.5 percent), and fluoranthene (32.4 percent) that exceeded the control limit of 25 percent. All positive results were qualified as an estimate "J" and non-detects "UJ". The associated samples were M4S-09, M4S-99, and MW15-09.
- Continuing calibration HG990707A70 had a percent difference for pentachlorophenol (36.4 percent), 2-methylphenol (25.5 percent), 4-methylphenol (29.5 percent), nitrobenzene (27.1 percent), hexachlorocyclopentadiene (39.9 percent), and 2,4-dinitrophenol (38.6 percent) that exceeded the control limit of 25 percent. All positive results were qualified as an estimate "J" and non-detects "UJ". The associated sample includes M4S-99DL (dilution).

Samples MW19-09, MW45-09, and MW50-09 were initially extracted within the required holding time, along with a method blank. The method blank was analyzed prior to the samples to determine if all QC criteria and contamination criteria had been met. In the analysis of the blank (SBLKDS), one or more of the internal standards and one or more of the surrogates failed acceptance criteria and many extraneous peaks were observed on the chromatogram. Because the QC criteria failed for this blank, the associated samples were re-extracted with another method blank. The repeat extractions, however, were performed outside of the required holding time. According to the laboratory, the failing responses and recoveries can be attributed to a possible laboratory error during the extraction procedure. The data for the initial and repeat (RE) extracts of the samples were reported by the laboratory. The results were then compared to determine the most representative data in table 1-3. It was determined that the re-analysis results were more representative and, therefore, would be used for reporting and validation purposes.

### Pesticides / PCBs

Major Deficiencies: There were no major deficiencies identified during the validation process.

Minor Deficiencies: There were no minor deficiencies identified which required qualification. Please refer to the Data Quality Objectives section for additional comments.

### **Inorganics / Cyanide**

<u>Major Deficiencies</u>: The following paragraphs describe the major deficiencies identified during the validation process.

#### Holding Time

• Samples MW50-09, MW19-09, MW45-09, M4S-09, M4S-99, MW15-09, MW14-09, MW09R-09, MW06-99, MW-06-09, and MW10C-09 which were analyzed for mercury exceeded the holding time requirement of 28 days from one to five days. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

#### Serial Dilution

• The percent difference for potassium (18.5 percent) exceeded the control limit of ±10% in sample MW09R-09L. All positive results were qualified as estimated "J".

Several samples contained detected concentrations of target analytes at concentrations between the instrument detection limit (IDL) and the contract required detection limit (CRDL). These were qualified as "B" by the laboratory, but during the validation process these qualifications were changed to a-"J" flag which indicates an estimate. Table 1-2 summarizes the affected samples and analytes.

### DATA QUALITY OBJECTIVES

The following is a summary of the data quality objectives that were evaluated during the data validation process.

Reporting Limits: Reporting limits were met for all analyses with the following exception.

- For VOCs: Reporting limits were met with the exception of cases in which dilution was necessary. Original, out-of-calibration range data have been included for confirmation of original detection limits and detections, when available. Sample MW45-09, M4S-09, M4S-99, MW06-99, and MW10C-09 was only analyzed as a dilution due to a high analyte concentration; therefore, no original out of calibration range data was included with this sample package. No data were qualified as a result.
- For SVOCs: Less than the method specified amount of raw sample was used for the extractions of some of the samples. The lower sample volumes resulted in slightly higher detection limits for these samples. The laboratory was contacted and they explained that the volume in the sample bottles they received were short, so they had to compensate and bring it back to 1mL. Original, out-of-calibration range data have been included for confirmation of original detection limits and detections, when available.

#### Accuracy

<u>Laboratory Control Sample:</u> Validation of the LCS was not performed for the organic analyses because the data was not provided by the laboratory and is not required per OLM 3.0. The LCS for the inorganic analyses were within control limits and analyzed at the correct frequency.

<u>Surrogates:</u> The surrogate results were within laboratory specified limits with the following exceptions.

- For SVOCs: Surrogates nitrobenzene-d5 (115 percent) and 2,4,6-tribromophenol (126 percent) had recoveries above the upper control limit with a high bias. All positive results were qualified as an estimate "J". The associated sample was MW10C-09.
- For Pesticides/PCBs: Surrogate recoveries for TCX exceeded the upper control limits of 30-150 percent. No qualification was required because the high recovery was only present in the 2<sup>nd</sup> column which indicates co-elution and a high bias. The associated samples were MW06-99 and MW06-09.

Matrix Spike / Matrix Spike Duplicate: The MS/MSD results were within laboratory specified limits with the following exceptions.

- For SVOCs: MS/MSD recoveries exceeded the upper control limits, with a high bias. No qualification was required.
- For Pesticides/PCBs: MS/MSD RPD exceeded the control limits for various compounds, which represented a high bias. MS/MSD recoveries were within control limits and surrogate recoveries were acceptable. No qualification was required.

• For Inorganics / Cyanide: Spike sample MW09R-09S had recoveries for selenium (130 percent) that exceeded the upper control limits. All positive results were qualified as estimated "J".

#### Precision

#### Field Duplicates:

- For VOCs: RPDs were calculated for benzene (5.7 percent) and chloromethane (6.5 percent) in field duplicate pair M4S-09 and M4S-99, and for chloromethane (24.7 percent), acetone (96.3 percent), and benzene (28.6 percent) in field duplicate pair MW06-09 and MW06-99.
- For SVOCs: RPDs were calculated for bis(2-chloroethyl) ether (29.6 percent) in field duplicate pair M4S-09 and M4S-99, and for bis(2-chloroethyl) ether (7.4 percent) in field duplicate pair MW06-09 and MW06-99.
- For Pesticides / PCBs: RPDs were calculated for beta-BHC (139.6 percent) in field duplicate pair MW06-09 and MW06-99.
- For Inorganics / Cyanide: RPDs were calculated for barium (22.6 percent), iron (20.9 percent), and sodium (23.6 percent) in field duplicate pair M4S-09 and M4S-99.

There are no qualification requirements for field QC samples exceeding limits.

<u>Laboratory Duplicate Sample:</u> For inorganics / cyanide: Lab duplicate MW09R-09D had RPDs which exceeded the control limit ranges for beryllium, cadmium, and zinc. All positive results were qualified as estimated "J". The associated samples were MW50-09, MW19-09, MW45-09, MW5-09, MW15-09, MW15-09, MW15-09, MW06-99, MW-06-09, and MW10C-09.

The overall results were acceptable, indicating that sampling and analytical precision objectives were met for the sampling event.

#### **Completeness**

The data package was complete for the requested analyses. No results were considered unusable. The completeness was 100 percent, which meets the completeness objective of 95 percent.

#### **Representativeness:**

No field blank samples were associated with this SDG.

#### Comparability:

All data were reported in similar units to facilitate comparison of results within the data packages. Samples arrived at the laboratory at 4°C, which is within the limits of 2-6°C. It should be noted that several samples were analyzed by EPA method CLP-VOA OLM3.0, CLP-SVOA OLM3.0, and CLP-Inorganics OLM 4.0 were analyzed after the recommended holding time. Because of the holding time exceedence, comparability might be affected.

As a result of this evaluation, all data within this SDG for wells at American Chemical Service are of known and acceptable quality in relation to the DQOs of this project. Although significant qualification were required due to holding time violation, the data are considered usable as qualified for the intended purposes. Table 1-1 and 1-2 summarizes the validation and laboratory qualifications for this sampling event.

#### REFERENCES

Pre-Design Activities Quality Assurance Project Plan, American Chemical Service, Inc. NPL Site, Griffith Indiana (MW, 1995).

National Functional Guidelines for Organic Data Review (USEPA, 1994a).

National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
944694	MW50-09	2-Butanone	10	μg/L	UJ	High	Continuing Calibration >CL
	(VOC)	4-Methyl-2-Pentanone	10	μg/L	UJ	High	Continuing Calibration >CL
		2-Hexanone	10	μg/L	UJ	High	Continuing Calibration >CL
		Acetone	2	μg/L	JB	High	IC RSD > CL / blank contamination
	(SVOC)	Phenol	10	μg/L	UJ	Low	Holding Time Missed
		bis (2-Chloroethyl) ether	10	μg/L	UJ	Low	Holding Time Missed
		2-Chlorophenol	10	μg/L	UJ	Low	Holding Time Missed
		1,3-Dichlorobenzene	10	μg/L	UJ	Low	Holding Time Missed
		1,4-Dichlorobenzene	10	μg/L	UJ	Low	Holding Time Missed
		1,2-Dichlorobenzene	10	μg/L	UJ	Low	Holding Time Missed
		2-Methylphenol	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
		2,2-oxybis (1-Chloropropane)	10	μg/L	UJ	Low	Holding Time Missed
		4-Methylphenol	10	μg/L	UJ	Low	Holding Time Missed
		N-Nitroso-di-n-propylamine	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
		Hexachloroethane	10	μg/L	UJ	Low	Holding Time Missed
		Nitrobenzene	10	μg/L	UJ	Low	Holding Time Missed
•		Isophorone	10	μg/L	UJ	Low	Holding Time Missed
		2-Nitrophenol	10	μg/L	UJ	Low	Holding Time Missed
		2,4-Dimethylphenol	10	μg/L	UJ	Low	Holding Time Missed
		bis (2-Chloroethoxy) methane	10	μg/L	UJ	Low	Holding Time Missed
		2,4-Dichlorophenol	10	μg/L	UJ	Low	Holding Time Missed
		1,2,4-Trichlorobenzene	10	μg/L	UJ	Low	Holding Time Missed
		Napthalene	10	μg/L	UJ	Low	Holding Time Missed
		4-Chloroaniline	10	μg/L	UJ	Low	Holding Time Missed
		Hexachlorobutadiene	10	μg/L	UJ	Low	Holding Time Missed
		4-Chloro-3-methylphenol	10	μg/L	UJ	Low	Holding Time Missed
		2-Methylnapthalene	10	μg/L `	UJ	Low	Holding Time Missed
		Hexachlorocyclopentadiene	10	μg/L	UJ	Low	Holding Time Missed
		2,4,6-Trichlorophenol	10	μg/L	UJ	Low	Holding Time Missed

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW50-09	2,4,5-Trichlorophenol	26	μg/L	ΠΊ	Low	Holding Time Missed
	(SVOC)	2-Chloronapthalene	10	μg/L	UJ	Low	Holding Time Missed
		2-Nitroaniline	26	μg/L	UJ	Low	Holding Time Missed
		Dimethylphthalate	10	μg/L	UJ	Low	Holding Time Missed
		Acenaphthylene	10	μg/L	UJ	Low	Holding Time Missed
		2,6-Dinitrotoluene	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
		3-Nitroaniline	26	μg/L	UJ	Low	Holding Time Missed
		Acenaphthene	10	μg/L	UJ	Low	Holding Time Missed
		2,4-Dinitrophenol	26	μg/L	UJ	Low	Holding Time Missed / CC > CL / IC %difference > CL
		4-Dinitrophenol	26	μg/L	UJ	Low	Holding Time Missed
		Dibenzofuran	10	μg/L	UJ	Low	Holding Time Missed
		2,4-Dinitrotoluene	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
	1	Diethylphthalate	10	μg/L	UJ	Low	Holding Time Missed
		4-Chlorophenyl-phenylether	10	μg/L	UJ	Low	Holding Time Missed
		Fluorene	10	μg/L	UJ	Low	Holding Time Missed
		4-Nitroaniline	26	μg/L	UJ	Low	Holding Time Missed
		4,6-Dinitro-2-methylphenol	26	μg/L	UJ	Low	Holding Time Missed
		N-nitrosodiphenylamine	10	μg/L	UJ	Low	Holding Time Missed
		4-Bromophenyl-phenylether	10	μg/L	UJ	Low	Holding Time Missed
		Hexachlorobenzene	10	μg/L	UJ	Low	Holding Time Missed
		Pentachlorophenol	26	μg/L	UJ	Low	Holding Time Missed
		Phenanthrene	10	μg/L	UJ	Low	Holding Time Missed
		Anthracene	10	μg/L	UJ	Low	Holding Time Missed
		Carbazole	10	μg/L	UJ	Low	Holding Time Missed
		Di-n-butylphthalate	10	μg/L	UJ	Low	Holding Time Missed
		Fluoranthene	10	μg/L	UJ	Low	Holding Time Missed
		Pyrene	10	μg/L	UJ	Low	Holding Time Missed
		Butylbenzylphthalate	10	μg/L	UJ	Low	Holding Time Missed
		3,3-Dichlorobenzidine	10	μg/L	UJ	Low	Holding Time Missed

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW50-09	Benzo (a) anthracene	10	μg/L	UJ	Low	Holding Time Missed
, ,	(SVOC)	Chrysene	10	μg/L	UJ	Low	Holding Time Missed
		bis (2-Ethylhexyl) phthalate	10	μg/L	UJ	Low	Holding Time Missed
		Di-n-octylphthalate	10	μg/L	UJ	Low	Holding Time Missed
		Benzo (b) fluoranthene	10	μg/L	UJ	Low	Holding Time Missed
		Benzo (k) fluoranthene	10	μg/L	UJ	Low	Holding Time Missed
		Benzo (a) pyrene	10	μg/L	UJ	Low	Holding Time Missed
		Ideno (1,2,3-cd) pyrene	10	μg/L	UJ	Low	Holding Time Missed
		Dibenzo (a,h) anthracene	10	μg/L	UJ	Low	Holding Time Missed
		Benzo (g,h,i) perylene	10	μg/L	UJ	Low	Holding Time Missed
	(Pesticide/PCB)	beta-BHC	0.0090	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		delta-BHC	0.00098	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		Methoxychlor	0.0063	μg/L	JPB	NDT	>25% diff. between two GC columns / blank contam. / below R
944711	MW19-09	Chloromethane	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
	(VOC)	Bromomethane	10	μg/L	UJ	Low	Missed Holding Time for $pH > 2$
		Vinyl Chloride	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		Chloroethane	14	μg/L	J	Low	Missed Holding Time for pH > 2
		Methylene Chloride	3	μg/L	J	Low	Missed Holding Time for pH > 2 / below RL
		Acetone	19	μg/L	JВ	Low	Missed HT for pH > 2 / IC RSD > CL / blank contamination
		Carbon Disulfide	10	μg/L	UJ	Low	Missed Holding Time for $pH > 2$
		1,1-Dichloroethene	10	μg/L	UJ	Low	Missed Holding Time for $pH > 2$
		1,1-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		Chloroform	10	μg/L	UJ	Low	Missed Holding Time for $pH > 2$
		1,2-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time for $pH > 2$
		2-Butanone	2	μg/L	JB	Low	Missed HT for pH > 2 / blnk contamin. / CC > CL / below RL
		1,1,1-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time for pH > 2

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW19-09	Carbon Tetrachloride	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
` '	(VOC)	Bromodichloromethane	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		1,2-Dichloropropane	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		cis-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time for $pH > 2$
		Trichloroethene	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		Dibromochloromethane	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		1,1,2-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		Benzene	7	μg/L	J	Low	Missed Holding Time for pH > 2 / below RL
		trans-1,3-Dichloropropene	10	μg/L	· UJ	Low	Missed Holding Time for pH > 2
		Bromoform	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		4-Methyl-2-Pentanone	3	μg/L	JB	Low	Missed HT for pH > 2 / blnk contamin. / CC > CL / below Rl
		2-Hexanone	3	μg/L	JB	Low	Missed HT for pH > 2 / blnk contamin. / CC > CL / below R
		Tetrachloroethene	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
	1	1,1,2,2-Tetrachloroethane	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		Toluene	10	μg/L	UJ	Low	Missed Holding Time for $pH > 2$
		Chlorobenzene	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
	•	Ethylbenzene	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		Styrene	0	μg/L	UJ	Low	Missed Holding Time for pH > 2
		Xylene (total)	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		1,2-Dichloroethene (total)	10	μg/L	UJ	Low	Missed Holding Time for $pH > 2$
	(SVOC)	Phenol	10	μg/L	UJ	Low	Missed Holding Time
		bis (2-Chloroethyl) ether	23	μg/L	J	Low	Missed Holding Time
		2-Chlorophenol	10	μg/L	UJ	Low	Missed Holding Time
		1,3-Dichlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		1,4-Dichlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		2-Methylphenol	10	μg/L	UJ	Low	Holding Time Missed / CC > CL



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW19-09	2,2-oxybis (1-Chloropropane)	4	μg/L	J	Low	Missed Holding Time / below RL
	(SVOC)	4-Methylphenol	10	μg/L	UJ	Low	Missed Holding Time
		N-Nitroso-di-n-propylamine	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
	•	Hexachloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Nitrobenzene	10	μg/L	UJ	Low	Missed Holding Time
		Isophorone	10	μg/L	UJ	Low	Missed Holding Time
		2-Nitrophenol	10	μg/L	UJ	Low	Missed Holding Time
		2,4-Dimethylphenol	10	μg/L	UJ	Low	Missed Holding Time
		bis (2-Chloroethoxy) methane	10	μg/L	UJ	Low	Missed Holding Time
		2,4-Dichlorophenol	10	μg/L	UJ	Low	Missed Holding Time
		1,2,4-Trichlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		Napthalene	10	μg/L	UJ	Low	Missed Holding Time
		4-Chloroaniline	10	μg/L	UJ	Low	Missed Holding Time
		Hexachlorobutadiene	10	μg/L	UJ	Low	Missed Holding Time
		4-Chloro-3-methylphenol	10	μg/L	UJ	Low	Missed Holding Time
		2-Methylnapthalene	10	μg/L	UJ	Low	Missed Holding Time
		Hexachlorocyclopentadiene	10	μg/L	ΠÌ	Low	Missed Holding Time
		2,4,6-Trichlorophenol	10	μg/L	UJ	Low	Missed Holding Time
		2,4,5-Trichlorophenol	25	μg/L	UJ	Low	Missed Holding Time
		2-Chloronapthalene	10	μg/L	UJ	Low	Missed Holding Time
		2-Nitroaniline	25	μg/L	UJ	Low	Missed Holding Time
		Dimethylphthalate	10	μg/L	UJ	Low	Missed Holding Time
		Acenaphthylene	10	μg/L	UJ	Low	Missed Holding Time
		2,6-Dinitrotoluene	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
		3-Nitroaniline	25	μg/L	UJ	Low	Missed Holding Time
		Acenaphthene	10	μg/L	UJ	Low	Missed Holding Time
		2,4-Dinitrophenol	25	μg/L	UJ	Low	HT Missed/ CC %Difference > CL / IC % Difference>CL
		4-Dinitrophenol	25	μg/L	UJ	Low	Missed Holding Time



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW19-09	Dibenzofuran	10	μg/L	UJ	Low	Missed Holding Time
, ,	(SVOC)	2,4-Dinitrotoluene	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
		Diethylphthalate	10	μg/L	UJ	Low	Missed Holding Time
		4-Chlorophenyl-phenylether	10	μg/L	UJ	Low	Missed Holding Time
		Fluorene	10	μg/L	UJ	Low	Missed Holding Time
		4-Nitroaniline	25	μg/L	UJ	Low	Missed Holding Time
		4,6-Dinitro-2-methylphenol	25	μg/L	UJ	Low	Missed Holding Time
		N-nitrosodiphenylamine	10	μg/L	UJ	Low	Missed Holding Time
		4-Bromophenyl-phenylether	10	μg/L	UJ	Low	Missed Holding Time
		Hexachlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		Pentachlorophenol	25	μg/L	. UJ	Low	Missed Holding Time
		Phenanthrene	10	μg/L	UJ	Low	Missed Holding Time
		Anthracene	10	μg/L	UJ	Low	Missed Holding Time
		Carbazole	10	μg/L	UJ	Low	Missed Holding Time
		Di-n-butylphthalate	10	μg/L	UJ	Low	Missed Holding Time
	:	Fluoranthene	10	μg/L	UJ	Low	Missed Holding Time
		Pyrene	10	μg/L	UJ	Low	Missed Holding Time
		Butylbenzylphthalate	10	μg/L	UJ	Low	Missed Holding Time
		3,3-Dichlorobenzidine	10	μg/L	UJ	Low	Missed Holding Time
		Benzo (a) anthracene	10	μg/L	UJ	Low	Missed Holding Time
		Chrysene	10	μg/L	UJ	Low	Missed Holding Time
		bis (2-Ethylhexyl) phthalate	1	μg/L	J	Low	Missed Holding Time / below RL
		Di-n-octylphthalate	10	μg/L	UJ	Low	Missed Holding Time
		Benzo (b) fluoranthene	10	μg/L	UJ	Low	Missed Holding Time
		Benzo (k) fluoranthene	10	μg/L	UJ	Low	Missed Holding Time
		Benzo (a) pyrene	10	μg/L	UJ	Low	Missed Holding Time
		Ideno (1,2,3-cd) pyrene	10	μg/L	UJ	Low	Missed Holding Time
		Dibenzo (a,h) anthracene	10	μg/L	UJ	Low	Missed Holding Time

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW19-09 (SVOC)	Benzo (g,h,i) perylene	10	μg/L	UJ	Low	Missed Holding Time
	(Pesticide/PCB)	alpha-BHC	0.0038	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		beta-BHC	0.022	μg/L	JP	NDT	>25% difference between two GC columns / below RL
	•	delta-BHC	0.0019	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		Heptachlor	0.0044	μg/L	JP	NDŢ	>25% difference between two GC columns / below RL
		Endosulfan II	0.0019	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		alpha-Chlordane	0.0053	μg/L	JP	NDT	>25% difference between two GC columns / below RL
944740	MW45-09	2-Butanone	50	μg/L	UJ	High	Continuing Calibration >CL
	(VOC)	4-Methyl-2-Pentanone	50	μg/L	UJ	High	Continuing Calibration >CL
		2-Hexanone	50	μg/L	UJ	High	Continuing Calibration >CL
	(SVOC)	Phenol	31	μg/L	J	Low	Missed Holding Time
	•	bis (2-Chloroethyl) ether	4	μg/L	J	Low	Missed Holding Time / below RL
		2-Chlorophenol	10	μg/L	UJ	Low	Missed Holding Time
		1,3-Dichlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		1,4-Dichlorobenzene	2	μg/L	J	Low	Missed Holding Time / below RL
		1,2-Dichlorobenzene	4	μg/L	J	Low	Missed Holding Time / below RL
		2-Methylphenol	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
		2,2-oxybis (1-Chloropropane)	7	μg/L	J	Low	Missed Holding Time / below RL
		4-Methylphenol	10	μg/L	UJ	Ļow	Missed Holding Time
		N-Nitroso-di-n-propylamine	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
		Hexachloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Nitrobenzene	10	μg/L	UJ	Low	Missed Holding Time
		Isophorone	10	μg/L	UJ	Low	Missed Holding Time
		2-Nitrophenol	10	μg/L	UJ	Low	Missed Holding Time



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW45-09	2,4-Dimethylphenol	10	μg/L	UJ	Low	Missed Holding Time
	(SVOC)	bis (2-Chloroethoxy) methane	10	μg/L	UJ	Low	Missed Holding Time
		2,4-Dichlorophenol	10	μg/L	UJ	Low	Missed Holding Time
		1,2,4-Trichlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		Napthalene	11	μg/L	J	Low	Missed Holding Time
		4-Chloroaniline	10	μg/L	UJ	Low	Missed Holding Time
		Hexachlorobutadiene	10	μg/L	UJ	Low	Missed Holding Time
		4-Chloro-3-methylphenol	10	μg/L	UJ	Low	Missed Holding Time
		2-Methylnapthalene	0.5	μg/L	· J	Low	Missed Holding Time / below RL
		Hexachlorocyclopentadiene	10	μg/L	UJ	Low	Missed Holding Time
		2,4,6-Trichlorophenol	10	μg/L	UJ	Low	Missed Holding Time
		2,4,5-Trichlorophenol	26	μg/L	UJ	Low	Missed Holding Time
		2-Chloronapthalene	10	μg/L	UJ	Low	Missed Holding Time
		2-Nitroaniline	26	μg/L	UJ	Low	Missed Holding Time
		Dimethylphthalate	10	μg/L	· UJ	Low	Missed Holding Time
	•	Acenaphthylene	10	μg/L	UJ	Low	Missed Holding Time
•	•	2,6-Dinitrotoluene	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
		3-Nitroaniline	26	μg/L	UJ	Low	Missed Holding Time
		Acenaphthene	10	μg/L	UJ	Low	Missed Holding Time
	i	2,4-Dinitrophenol	26	μg/L	UJ	Low	Holding Time Missed / CC > CL / IC %difference > CL
		4-Dinitrophenol	26	μg/L	UJ	Ļow	Missed Holding Time
		Dibenzofuran	10	μg/L	UJ	Low	Missed Holding Time
		2,4-Dinitrotoluene	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
		Diethylphthalate	10	μg/L	UJ	Low	Missed Holding Time
		4-Chlorophenyl-phenylether	10	μg/L	UJ	Low	Missed Holding Time
		Fluorene	10	μg/L	UJ	Low	Missed Holding Time
		4-Nitroaniline	26	μg/L	UJ	Low	Missed Holding Time
		4,6-Dinitro-2-methylphenol	26	μg/L	UJ	Low	Missed Holding Time



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW45-09	N-nitrosodiphenylamine	10	μg/L	UJ	Low	Missed Holding Time
	(SVOC)	4-Bromophenyl-phenylether	10	μg/L	UJ	Low	Missed Holding Time
		Hexachlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		Pentachlorophenol	26	μg/L	UJ	Low	Missed Holding Time
		Phenanthrene	10	μg/L	UJ	Low	Missed Holding Time
		Anthracene	10	μg/L	UJ	Low	Missed Holding Time
		Carbazole	10	μg/L	UJ	Low	Missed Holding Time
		Di-n-butylphthalate	10	μg/L	UJ	Low	Missed Holding Time
		Fluoranthene	10	μg/L	UJ	Low	Missed Holding Time
		Pyrene	10	μg/L	UJ	Low	Missed Holding Time
		Butylbenzylphthalate	10	μg/L	UJ	Low	Missed Holding Time
		3,3-Dichlorobenzidine	10	μg/L	UJ	Low	Missed Holding Time
		Benzo (a) anthracene	10	μg/L	UJ	Low	Missed Holding Time
		Chrysene	10	μg/L	UJ	Low	Missed Holding Time
		bis (2-Ethylhexyl) phthalate	10	μg/L	UJ	Low	Missed Holding Time
		Di-n-octylphthalate	10	μg/L	UJ	Low	Missed Holding Time
•	1	Benzo (b) fluoranthene	10	μg/L	UJ	Ļow	Missed Holding Time
		Benzo (k) fluoranthene	10	μg/L	UJ	Low	Missed Holding Time
		Benzo (a) pyrene	10	μg/L	UJ	Low	Missed Holding Time
		Ideno (1,2,3-cd) pyrene	10	μg/L	UJ	Low	Missed Holding Time
		Dibenzo (a,h) anthracene	10	μg/L	UJ	Low	Missed Holding Time
		Benzo (g,h,i) perylene	10	μg/L	UΊ	Low	Missed Holding Time
	(Pesticide/PCB)	alpha-BHC	0.0032	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		beta-BHC	0.0078	μg/L	JP	NDT	>25% difference between two GC columns / below RL
945258	M4S-09	2-Butanone	100	μg/L	UJ	High	Continuing Calibration >CL
2.2200	(VOC)	4-Methyl-2-Pentanone	100	μg/L	UJ	High	Continuing Calibration > CL



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	M4S-09	2-Hexanone	100	μg/L	UJ	High	Continuing Calibration >CL
, ,	(VOC)	Acetone	26	μg/L	JB	High	IC RSD > CL / blank contamination / below RL
		Methylene Chloride	19	μg/L	J	NDT	Detected below RL
	(SVOC)	2-Methylnaphthalene	11	μg/L	UJ	NDT	CC % difference > CL
	` ,	4-Nitroaniline	28	μg/L	UJ	NDT	CC % difference > CL
		Carbazole	11	μg/L	UJ	NDT	CC % difference > CL
		Fluoranthene	11	μg/L	UJ	NDT	CC % difference > CL
	(Pesticide/PCB)	alpha-BHC	0.0083	μg/L	JP	NDT	>25% difference between two GC columns / below RL
	,	beta-BHC	0.016	μg/L	JPB	NDT	>25% diff. between two GC columns / blank contam. / below RL
		delta-BHC	0.0012	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		gamma-BHC	0.011	μg/L	J	NDT	Detected below RL
945259	M4S-99	2-Butanone	100	μg/L	UJ	High	Continuing Calibration >CL
	(VOC)	4-Methyl-2-Pentanone	100	μg/L	UJ	High	Continuing Calibration >CL
•		2-Hexanone	100	μg/L	UJ	High	Continuing Calibration >CL
		Acetone	24	μg/L	JB	High	IC RSD > CL / blank contamination / below RL
		Methylene Chloride	18	μg/L	J	NDT	Detected below RL
	(SVOC)	bis (2-chloroethyl) ether	95	μg/L	Е	NDT	Exceeded calibration range
	, ,	2-Methylnaphthalene	10	μg/L	UJ	NDT	CC % difference > CL
	Ī	4-Nitroaniline	26	μg/L	UJ	NDT	CC % difference > CL
		Carbazole	10	μg/L	UJ	NDT	CC % difference > CL
		Fluoranthene	10	μg/L	UJ	NDT	CC % difference > CL
	(Pesticide/PCB)	alpha-BHC	0.0090	μg/L.	JР	NDT	>25% difference between two GC columns / below RL
	,	beta-BHC	0.012	μg/L	JPB	NDT	>25% diff. between two GC columns / blank contam. / below RL

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	M4S-99	delta-BHC	0.0027	μg/L	JР	NDT	>25% difference between two GC columns / below RL
, ,	(Pesticide/PCB)	gamma-BHC	0.0084	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		4,4-DDD	0.0084	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		alpha-Chlordane	0.0040	μg/L	JP	NDT	>25% difference between two GC columns / below RL
945259	M4S-99 DL	Pentachlorophenol	51	μg/L	UJ	High	Continuing Calibration >CL
	(SVOC)	2-Methylphenol	20	μg/L	UJ	High	Continuing Calibration >CL
		4-Methylphenol	20	μg/L	UJ	High	Continuing Calibration >CL
		Nitrobenzene	20	μg/L	UJ	High	Continuing Calibration >CL
		Hexachlorocyclopentadiene	20	μg/L	UJ	High	Continuing Calibration >CL
		2,4-Dinitrophenol	51	μg/L	UJ	High	Continuing Calibration >CL
		bis (2-chloroethyl) ether	91	μg/L	D	NDT	Diluted sample
945261	MW15-09	2-Butanone	10	μg/L	UJ	High	Continuing Calibration >CL
	(VOC)	4-Methyl-2-Pentanone	10	μg/L	UJ	High	Continuing Calibration >CL
		2-Hexanone	10	μg/L	UJ	High	Continuing Calibration >CL
•		Acetone	4	μg/L	J	High	IC RSD > CL / below RL
		Methylene Chloride	5	μg/L	J	NDT	Detected below RL
	1	Benzene	3	μg/L	J	NDT	Detected below RL
	(SVOC)	2-Methylnaphthalene	10	μg/L	UJ .	NDT	CC % difference > CL
		4-Nitroaniline	26	μg/L	UJ	NDT	CC % difference > CL
		Carbazole	10	μg/L	UJ	NDT	CC % difference > CL
		Fluoranthene	10	μg/L	ប្ប	NDT	CC % difference > CL
	(Pesticide/PCB)	beta-BHC	0.0081	μg/L	JPB	NDT	>25% diff. between two GC columns / blank contam. / below RL
		delta-BHC	0.0016	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		gamma-BHC	0.0033	μg/L	JP	NDT	>25% difference between two GC columns / below RL



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW15-09	Heptachlor	0.0074	μg/L	JP	NDT	>25% difference between two GC columns / below RL
	(Pesticide/PCB)	Aldrin	0.0021	μg/L	JP	NDT	>25% difference between two GC columns / below RL
945684	MW14-09	Acetone	10	μg/L	JB	High	IC RSD > CL / blank contamination / below RL
	(VOC)	Methylene Chloride	3	μg/L	JB	High	blank contamination / Detected below RL
		Chloromethane	10	μg/L	UJ	High	CC %difference > CL
	(SVOC)	Nitrobenzene	10	μg/L	UJ	High	Continuing Calibration >CL
		2,2-oxybis (1-Chloropropane)	10	μg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	26	μg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	26	μg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	μg/L	UJ	High	Continuing Calibration >CL
	(Pesticide/PCB)	Heptachlor	0.0022	μg/L	JP	NDT	>25% difference between two GC columns / below RL
945685	MW09R-09	Acetone	8	μg/L	JB	High	IC RSD > CL / blank contamination / below RL
•	· (VOC)	Methylene Chloride	9	μg/L	JB	High	blank contamination / Detected below RL
		Chloromethane	10	μg/L	Ωĵ	High	CC %difference > CL
	(SVOC)	Nitrobenzene	10	μg/L	· UJ	High	Continuing Calibration >CL
		2,2-oxybis (1-Chloropropane)	10	μg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	25	μg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	25	μg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	μg/L	UJ	High	Continuing Calibration >CL
	(Pesticide/PCB)	delta-BHC	0.0053	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		alpha-Chlordane	0.010	μg/L	JP	NDT	>25% difference between two GC columns / below RL

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
945685	MW09R-09 DL	Acetone	15	μg/L	DJ	High	IC RSD > CL / Diluted / below RL
	(VOC)	Chloromethane	56	μg/L	UJ	High	CC %difference > CL
945686	MW06-99	Acetone	28	μg/L	JВ	High	IC RSD > CL / blank contamination
	(VOC)	Methylene Chloride	3	μg/L	JB	High	Detected below RL / blank contamination
		Chloromethane	25	μg/L	UJ	High	CC %difference > CL
(cont.)	MW06-99	Nitrobenzene	10	μg/L	IJ	High	Continuing Calibration >CL
	(SVOC)	2,2-oxybis (1-Chloropropane)	10	μg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	26	μg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	26	μg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	μg/L	UJ	High	Continuing Calibration >CL
		bis (2-ethylhexyl) phthalate	5	μg/L	JB	NDT	Detected below RL / blank contamination
	(Pesticide/PCB)	alpha-BHC	0.012	μg/L	J	NDT	Detected below RL
		beta-BHC	0.064	μg/L	P	NDT	>25% difference between two GC columns
		delta-BHC	0.0012	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		gamma-BHC	0.014	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		Heptachlor	0.015	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		Aldrin	0.0072	μg/L	JP	NDT	>25% difference between two GC columns / below RL
	·	alpha-Chlordane	0.0085	μg/L	J	NDT	Detected below RL
		gamma-Chlordane	0.0019	μg/L	JP	NDT	>25% difference between two GC columns / below RL
945687	MW06-09	Acetone	80	μg/L	JB	High	IC RSD > CL / blank contamination
	(VOC)	2-Butanone	2	μg/L	J	NDT	Detected below RL
		Toluene	1	μg/L	J	NDT	Detected below RL
		1,2-Dichloroethene	1	μg/L	J	NDT	Detected below RL
		Chloromethane	10	μg/L	UJ	High	CC %difference > CL

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
	1.4110.6.00		10				
(cont.)	MW06-09	Nitrobenzene	10	μg/L	UJ	High	Continuing Calibration >CL
	(SVOC)	2,2-oxybis (1-Chloropropane)	10	μg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	26	μg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	26	μg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	μg/L	UJ	High	Continuing Calibration >CL
		Isophorne	3	μg/L	J	NDT	Detected below RL
	(Pesticide/PCB)	alpha-BHC	0.0095	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		beta-BHC	0.36	μg/L	P	NDT	>25% difference between two GC columns
		delta-BHC	0.0040	μg/L	JР	NDT	>25% difference between two GC columns / below RL
		gamma-BHC	0.0066	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		Heptachlor	0.0043	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		Dieldrin	0.0069	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		4,4-DDE	0.0012	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		Endrin	0.021	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		alpha-Chlordane	0.0068	μg/L	JP	NDT	>25% difference between two GC columns / below RL
945705	MW10C-09	Acetone	990	μg/L	JB	High	IC RSD > CL / blank contamination / below RL
	(VOC)	Methylene Chloride	130	μg/L	JB	High	Detected below RL / blank contamination
		Chloromethane	1000	μg/L	UJ `	High	CC %difference > CL
	(SVOC)	Nitrobenzene	10	μg/L	UJ	High	Continuing Calibration >CL
		2,2-oxybis (1-Chloropropane)	10	μg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	26	μg/L	UJ	High	Continuing Calibration >CL
	•	Pentachlorophenol	26	μg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	μg/L	UJ	High	Continuing Calibration >CL
		bis (2-Ethylhexyl) phthalate	2	μg/L	JB	High	Surrogate %R > CL / blank contamination / below RL



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW10C-09 (Pesticide/PCB)	beta-BHC delta-BHC gamma-BHC	0.017 0.0023 0.0012	μg/L μg/L μg/L	J JP	NDT NDT NDT	Detected below RL >25% difference between two GC columns / below RL >25% difference between two GC columns / below RL

B - Blank contamination

CC - Continuing calibration

CL - Control limit

D - Diluted

HT - Holding time

IC - Initial calibration

J - Estimated value

μg/L - micrograms/Liter

NDT - Not Determined

P - indicates that the percent difference between the two GP columns is greater than 25%.

R - Recovery

RL - Reporting limit

RSD - Relative standard deviation

U - The associated value is at or below MDL.



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
944694	MW50-09	Antimony	2.3	μg/L	J	NDT	Detected below RL
		Arsenic	2.9	μg/L	J	NDT	Detected below RL
		Beryllium	0.41	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	0.71	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	5.7	μg/L	J	NDT	Detected below RL
		Copper	12.6	μg/L	J	NDT	Detected below RL
		Mercury	1.1	μg/L	J	Low	Missed Holding Time
		Potassium	9530	μg/L	J	High	Serial Dilution %D > CL
		Vanadium	8.3	μg/L	J	NDT	Detected below RL
		Zinc	19.1	μg/L	J	High	Lab duplicate RPD > CL / below RL
44711	MW19-09	Aluminum	64.6	μg/L	J	NDT	Detected below RL
		Arsenic	7.7	μg/L	J	NDT	Detected below RL
		Beryllium	0.25	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Chromium	3.6	μg/L	J	NDT	Detected below RL
	•	Cobalt	1.4	μg/L	J	NDT	Detected below RL
		Copper	2.3	μg/L	J	NDT	Detected below RL
		Cyanide	5.1	μg/L	J	NDT	Detected below RL
		Mercury	0.05	μg/L	UJ	Low	Missed Holding Time
		Nickel	16.2	μg/L	J	NDT	Detected below RL
		Potassium	92400	μg/L	.J	High	Serial Dilution %D > CL
		Vanadium	0.73	μg/L	J	NDT	Detected below RL
44740	MW45-09	Antimony	2.1	μg/L	J	NDT	Detected below RL
		Barium	84.2	μg/L	J	NDT	Detected below RL
		Beryllium	0.26	μg/L	J	High	Lab duplicate RPD > CL / below RL
	•	Cobalt	3.0	μg/L	J	NDT	Detected below RL
		Copper	5.0	μg/L	J	NDT	Detected below RL



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ab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
cont.)	MW45-09	Lead	1.8	μg/L	J	NDT	Detected below RL
		Mercury	0.05	μg/L	UJ	Low	Missed Holding Time
		Potassium	5430	μg/L	J	High	Serial Dilution %D > CL
		Vanadium	1.1	μg/L	J	NDT	Detected below RL
		Zinc	5.6	μg/L	J	High	Lab duplicate RPD > CL / below RL
5258	M4S-09	Aluminum	83.9	μg/L	J	NDT	Detected below RL
		Antimony	3.2	μg/L	J	NDT	Detected below RL
		Arsenic	2.7	μg/L	J	NDT	Detected below RL
		Beryllium	0.44	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	1.8	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Chromium	6.2	μg/L	J	NDT	Detected below RL
		Cobalt	6.0	μg/L	J	NDT	Detected below RL
		Mercury	0.05	μg/L	UJ	Low	Missed Holding Time
		Nickel	11.5	μg/L	J	NDT	Detected below RL
	٠	Potassium	18800	μg/L	J	High	Serial Dilution %D > CL
		Vanadium	2.9	μg/L	· <b>J</b>	NDT	Detected below RL
		Zinc	2.5	μg/L	J	High	Lab duplicate RPD > CL / below RL
5259	M4S-99	Aluminum	53.7	μg/L	J	NDT	Detected below RL
		Antimony	2.8	μg/L	J	NDT	Detected below RL
	1	Arsenic	4.0	μg/L	J	NDT	Detected below RL
		Beryllium	0.32	μg/L	. <b>J</b>	High	Lab duplicate RPD > CL / below RL
		Cadmium	2.6	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Chromium	3.7	μg/L	J	NDT	Detected below RL
		Cobalt	7.2	μg/L	J	NDT	Detected below RL
		Mercury	0.05	μg/L	UJ	Low	Missed Holding Time
		Nickel	11.3	μg/L	J	NDT	Detected below RL



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	M4S-99	Potassium	19500	μg/L	J .	High	Serial Dilution %D > CL
,		Silver	0.38	μg/L	J	NDT	Detected below RL
		Vanadium	4.0	μg/L	J	NDT	Detected below RL
		Zinc	2.7	μg/L	J	High	Lab duplicate RPD > CL / below RL
945261	MW15-09	Beryllium	0.47	μg/L	J	High	Lab duplicate RPD.> CL / below RL
		Chromium	4.1	μg/L	J	NDT	Detected below RL
		Cobalt	5.5	μg/L	J	NDT	Detected below RL
		Copper	3.0	μg/L	J	NDT	Detected below RL
		Mercury	0.05	μg/L	UJ	Low	Missed Holding Time
		Nickel	19.8	μg/L	J	NDT	Detected below RL
		Potassium	124000	μg/L	J	High	Serial Dilution %D > CL
		Vanadium	1.9	μg/L	J	NDT	Detected below RL
		Zinc	2.1	μg/L	J	High	Lab duplicate RPD > CL / below RL
945684	MW14-09	Antimony	2.9	μg/L	J	NDT	Detected below RL
÷		Barium	119	μg/L	J	NDT	Detected below RL
		Beryllium	0.93	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	24.7	μg/L	J	NDT	Detected below RL
		Mercury	0.05	μg/L	UJ	Low	Missed Holding Time
		Potassium	5050	μg/L	J	High	Serial Dilution %D > CL
		Selenium	6.6	μg/L	J	High	Spike Sample %R > CL
		Zinc	44.5	μg/L	J	High	Lab duplicate RPD > CL
945685	MW09R-09	Arsenic	2.0	μg/L	J	NDT	Detected below RL
	,	Beryllium	0.36	μg/L	J	High	Lab duplicate RPD > CL / below RL
	•	Cadmium	0.92	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	3.3	μg/L	J	NDT	Detected below RL



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(aont )	MW09R-09	Connar	5.7	шаЛ	Ţ	NDT	Detected below RL
(cont.)	IVI VV U 7 IX - U 9	Copper	0.05	μg/L μg/L	J J	Low	
		Mercury Nickel	18.2		. OJ	NDT	Missed Holding Time Detected below RL
		Potassium	7790	μg/L	J T		Serial Dilution %D > CL
			2.5	μg/L	J	High	
		Vanadium		μg/L	J	NDT	Detected below RL
		Zinc	20.6	μg/L	J	High	Lab duplicate RPD > CL
945686	MW06-99	Aluminum	85.3	μg/L	J	NDT	Detected below RL
		Antimony	2.5	μg/L	J	NDT	Detected below RL
		Beryllium	0.38	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	2.2	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	2.0	μg/L	J	NDT	Detected below RL
		Copper	3.8	μg/L	J	NDT	Detected below RL
		Cyanide	5.7	μg/L	J	NDT	Detected below RL
		Mercury	0.05	μg/L	UJ	Low	Missed Holding Time
		Nickel	21.6	μg/L	J	NDT	Detected below RL
		Potassium	16400	μg/L	j	High	Serial Dilution %D > CL
		Silver	0.40	μg/L	J	NDT	Detected below RL
		Zinc	4.4	μg/L	J	High	Lab duplicate RPD > CL / below RL
945687	MW06-09	Aluminum	41.3	μg/L	J	NDT	Detected below RL
	•	Antimony	3.2	μg/L	J	NDT	Detected below RL
		Beryllium	0.25	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	2.1	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Chromium	8.1	μg/L	J	NDT	Detected below RL
		Cobalt	2.4	μg/L	J	NDT	Detected below RL
		Copper	3.7	μg/L	J	NDT	Detected below RL
		Mercury	0.05	μg/L	UJ	Low	Missed Holding Time
		-					o



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW06-09	Nickel	20.2	μg/L	J	NDT	Detected below RL
(*******)		Potassium	16500	μg/L	J	High	Serial Dilution %D > CL
		Vanadium	0.68	μg/L	J	NDT	Detected below RL
		Zinc	2.3	μg/L	J	High	Lab duplicate RPD > CL / below RL
945705	MW10C-09	Antimony	2.1	μg/L	J	NDT	Detected below RL
		Beryllium	0.33	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	2.7	μg/L	J	NDT	Detected below RL
		Copper	3.6	μg/L	J	NDT	Detected below RL
		Cyanide	7.4	μg/L	J	NDT	Detected below RL
		Mercury	0.05	μg/L	UJ	Low	Missed Holding Time
		Nickel	13.4	μg/L	J	NDT	Detected below RL
		Potassium	3630	μg/L	J	High	Serial Dilution %D > CL / below RL
		Vanadium	2.0	μg/L	J	NDT	Detected below RL
		Zinc	5.1	μg/L	J	High	Lab duplicate RPD > CL / below RL

CL - Control limit

D - Difference

J - Estimated value

μg/L - micrograms/Liter

RL - Reporting limit

RPD - Relative percent difference

U - The associated value is at or below IDL.

#### **TABLE 1-3**

# . COMPARISON OF ORIGINAL AND RE-ANALYSIS SAMPLES FOR SVOCS SDG 003 AMERICAN CHEMICAL SERVICE, INC GRIFFITH, INDIANA

### (Page 1 of 1)

Analyte	ACSGWMW19-09	ACSGWMW19-09RE
bis (2-Chloroethyl) ether	23	23
2,2-oxybis (1-Chloropropane)	2 J	4 J
Isophorone	6 J	10 U
bis (2-Ethylhexyl) phthalate	16	1 J
All other analytes	U	U

Analyte	ACSGWMW45-09	ACSGWMW45-09RE	
Phenol	5 J	31	
bis (2-Chloroethyl) ether	5 J	4 Ј	
1,4-Dichlorobenzene	2 J	2 J	
1,2-Dichlorobenzene	4 J	, 4 J	
2,2-oxybis (1-Chloropropane)	7 Ј	7 J	
Isophorone	2 J	10 U	
Napthalene	97 E	11	
2-Methylnapthalene	2 J	0.5 J	
All other analytes	Ŭ	U	

Analyte	ACSGWMW50-09	ACSGWMW50-09RE
All analytes	U	U

E - result exceeded the calibration range

J - result is estimated

RE - re-analysis

U - result not detected

#### MEMORANDUM



To:

Trisha Woolslayer

Date:

August 20, 1999

From:

Anne Koob, MW

Job No.:

1252042.281601

**Subject:** 

Data Validation for American

SDG:

.005

Chemical Service (ACS). Griffith, Indiana.

June 1999

#### INTRODUCTION

The following text is based on the validation of water samples collected at American Chemical Service, Inc. in June of 1999.

Fourteen water samples and six field quality assurance samples were analyzed by CompuChem Laboratories, Cary, North Carolina for the following parameters:

- VOA's by CLP OLM 3.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, M1S-09, M4D-09, MW07-09, MW11-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW46-09, MW47-09, MW51-09, TB03-09, and TB04-09)
- SVOA's by CLP OLM 3.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW46-09, MW47-09, and MW51-09)
- Pesticides/PCB's by CLP OLM 3.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW46-09, MW47-09, and MW51-09)
- Inorganics by CLP ILM04.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, MW07-09, MW11-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW47-09, MW51-09, M1S-09, and M4D-09)
- Cyanide by CLP ILM04.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, MW07-09, MW11-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW47-09, MW51-09, M1S-09, and M4D-09)

Data validation was conducted in accordance with procedures specified in Pre-Design Activities Quality Assurance Project Plan (MW, 1995), National Functional Guidelines for Organic Data

Review (USEPA, 1994a), and National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).

The following field quality control samples were collected during the June 1999 sampling round:

- Four field blanks: FB02-09, FB03-09, FB04-09, FB05-09; and
- Two trip blanks: TB03-09, and TB04-09.

This memorandum contains a narrative summarizing the data quality objectives specified in the work plan, and provides a table of qualified data (Table 1-1 and 1-2) and supporting validation documentation (Attachment A).

#### **SUMMARY**

This section describes the quality control parameters reviewed during validation, summarizes the data quality objectives as a result of the validation and provides a summary of the deficiencies and qualification applied. The following paragraphs describe deficiencies that were identified which resulted in qualification of the sample results. Each analysis is separated into sections for clarity.

## **Volatile Organic Componds**

<u>Major Deficiencies</u>: The following paragraphs describe the major deficiencies identified during the validation process.

### Holding Time

• One samples for this analysis exceeded the holding time requirement of 14 days by 2.5 hours. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias. The lab narrative indicates that sample M1S-09 arrived at a pH of 3, which is greater than the preservation criteria of pH 2. Holding time criteria for non-aromatic volatile compounds is fourteen days, regardless of pH, provided that the temperature has been maintained at 4±2° C. Sample temperature was properly maintained and no data were qualified due to the pH nonconformance.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

#### **Initial Calibration**

• The initial calibration (run on 6/20/99 at 1249) %RSD for acetone (51.5 percent) was above the control limit of 30 percent. All positive results were qualified as an estimate "J" for acetone.

#### Continuing Calibration

• The continuing calibration (run on 6/27/99 at 1120) for acetone (-30.3 percent) had a percent difference that exceeded the control limit of ±25 percent. All positive and nondetect results were qualified as estimated with a low bias.

#### Surrogate Compounds

• The 1,2-Dichloroethane surrogate in sample FB03-09 was recovered at 124%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.

Contaminants were detected below the CRDL in some blanks and the associated sample results were flagged "B", by the laboratory, to indicate the possibility of blank contamination. Because most detections in blanks were below reporting limits, blank contamination is not expected to affect data usability across the board. Samples with associated blank contamination (above the reporting limit) are noted in the table of qualified data.

## **Semi-Volatile Organic Compounds**

Major Deficiencies: There were no major deficiencies identified during the validation process.

<u>Minor Deficiencies</u>: The following paragraphs describe the minor deficiencies that were identified during the validation process.

#### Continuing Calibration

• A continuing calibration (run on 6/22/99 at 0921) had a percent difference for Nitrobenzene (34.1 percent/high bias) and Pentachlorophenol (38.7 percent/low bias) that exceeded the control limit of 25 percent. All affected samples were ND for pentachlorophenol; thus the practical quantitation limit (PQL) was qualified as estimated "UJ". No qualification was required for Nitrobenzene because the associated samples were ND and the CCV demonstrated a high bias.

#### Surrogate Compounds

- The Nitrobenzene-d5 surrogate in sample MW24-09 was recovered at 120%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The Nitrobenzene-d5 surrogate in sample FB05-09 was recovered at 120%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The Nitrobenzene-d5 surrogate in sample FB04-09 was recovered at 130%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The Nitrobenzene-d5 surrogate in sample FB02-09 was recovered at 123%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The 2,4,6-Tribromophenol surrogate in sample MW24-09 was recovered at 131%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The 2-Fluorobiphenyl surrogate in sample MW43-09 was recovered at 32%, which is below the control limit of 35%. All positive results were qualified as estimated "J", with a low bias. For all ND results, the PQL was qualified as estimated "UJ" with a low bias.
- The 2-Chlorophenol-d4 surrogate in sample MW43-09 was recovered at 32%, which is below the control limit of 33%. Though this surrogate is an advisory surrogate, it is required to pass within control limits. All positive results were qualified as estimated

"J", with a low bias. For all ND results, the PQL was qualified as estimated "UJ" with a low bias.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

- The MS/MSD recovery for 4-Nitrophenol in sample MW47-09 was 97%/94%, which is above the upper control limit of 80%. No data were qualified, as all results for this compound were non-detect.
- The MSD recovery for 4-Chloro-3-methylphenol in sample MW47-09 was 99%, which is above the upper control limit of 97%. No data were qualified, as all results for this compound were non-detect.
- The MS/MSD RPD for 1,4-Dichlorobenzene in sample MW47-09 was 44, which is above the upper control limit of 28%. All results were qualified as estimated "J".

Contaminants were detected below the CRDL in some blanks and the associated sample results were flagged "B", by the laboratory, to indicate the possibility of blank contamination. Because all detections in blanks were below reporting limits, blank contamination is not expected to affect data usability.

### Pesticides / PCBs

Major Deficiencies: There were no major deficiencies identified during the validation process.

<u>Minor Deficiencies</u>: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

- The MS/MSD RPD for gamma-BHC(lindane) in sample MW47-09 was 34, which is above the upper control limit of 15%. All results were qualified as estimated "J".
- The MS/MSD RPD for Heptachlor in sample MW47-09 was 32, which is above the upper control limit of 20%. All results were qualified as estimated "J".
- The MS/MSD RPD for Aldrin in sample MW47-09 was 30, which is above the upper control limit of 22%. All results were qualified as estimated "J".
- The MS/MSD RPD for Dieldrin in sample MW47-09 was 25, which is above the upper control limit of 18%. All results were qualified as estimated "J".
- The MS/MSD RPD for Endrin in sample MW47-09 was 29, which is above the upper control limit of 21%. All results were qualified as estimated "J".

Contaminants were detected below the CRDL in some blanks and the associated sample results were flagged "B", by the laboratory, to indicate the possibility of blank contamination. Because all detections in blanks were below reporting limits, blank contamination is not expected to affect data usability.

## **Inorganics / Cyanide**

<u>Major Deficiencies</u>: The following paragraphs describe the major deficiencies identified during the validation process.

#### Holding Time

- All samples analyzed for mercury exceeded the holding time requirement of 28 days by twelve days. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.
- All samples analyzed for cyanide exceeded the holding time requirement of 14 days by 26 days. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

#### Continuing Calibration Blanks

• Several continuing calibration blanks (CCBs) had negative detections of calcium, sodium, and zinc indicating a possible negative bias in associated sample results. All associated positive results for those analytes were qualified as estimated "J", with a 'low bias, unless the bias was insignificant compared to the sample concentration. In the case of ND results, the PQL was qualified as estimated "UJ", with a low bias.

Several samples contained detected concentrations of target analytes at concentrations between the instrument detection limit (IDL) and the contract required detection limit (CRDL). These were qualified as "B" by the laboratory, but during the validation process these qualifications were changed to a "J" flag which indicates an estimate. Table 1-2 summarizes the affected samples and analytes.

### DATA QUALITY OBJECTIVES

The following is a summary of the data quality objectives that were evaluated during the data validation process.

Reporting Limits: Reporting limits were met for all analyses with the following exception.

- For VOCs: Reporting limits were met without exception. No dilutions were necessary.
- For SVOCs: Reporting limits were met without exception. No dilutions were necessary.
- For Pesticides: Reporting limits were met without exception. No dilutions were necessary.
- For Metals and Cyanide: Reporting limits were met without exception. No dilutions were necessary.

#### Accuracy

<u>Laboratory Control Sample:</u> Validation of the LCS was not performed for the organic analyses because the data was not provided by the laboratory and is not required per OLM 3.0. The LCS for the inorganic analyses were within control limits and analyzed at the correct frequency.

<u>Surrogates</u>: The surrogate results were within laboratory specified limits with the exceptions noted previously.

<u>Matrix Spike / Matrix Spike Duplicate:</u> The MS/MSD results were within laboratory specified limits with the exceptions noted previously.

#### Precision

Field Duplicates: No field duplicates were present in this SDG.

Laboratory Duplicate Sample: No laboratory duplicate analyses were performed in this SDG.

The overall results were acceptable, indicating that sampling and analytical precision objectives were met for the sampling event.

#### **Completeness**

The data package was complete for the requested analyses. No results were considered unusable. The completeness was 100 percent, which meets the completeness objective of 95 percent.

#### Representativeness:

Trip blanks TB03-09 and TB04-09 had no target analytes detected above the reporting limit for all analyses, indicating that the representativeness objectives for the sampling event were met.

Field blanks FB03-09 and FB05-09 had acetone and methylene chloride detections above the reporting limit. Associated positive results were qualified as contaminated "B". Samples MW37-09, MW23-09, and TB04-09 were affected.

#### Comparability:

All data were reported in similar units to facilitate comparison of results within the data packages. Samples arrived at the laboratory at 4°C, which is within the limits of 2-6°C. It should be noted that several samples were analyzed by EPA method CLP-Inorganics OLM 4.0 were analyzed after the recommended holding time. Because of the holding time exceedence, comparability might be affected.

As a result of this evaluation, all data within this SDG for wells at American Chemical Service are of known and acceptable quality in relation to the DQOs of this project. Although significant qualifications were required due to holding time violations, the data are considered usable as qualified for the intended purposes. Table 1-1 and 1-2 summarize the validation and laboratory qualifications for this sampling event.

#### REFERENCES

Pre-Design Activities Quality Assurance Project Plan, American Chemical Service, Inc. NPL Site, Griffith Indiana (MW, 1995).

National Functional Guidelines for Organic Data Review (USEPA, 1994a).

National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).

ID	Field ID	Analysis	Analyte	result	unit f	lag	bias	comment
SDG 5	FB03-09RE	VOCs	all other volatiles	all	ug/L J	I/UJ	low	run 2.5 hours past hold time
SDG 5	FB03-09RE	VOCs	Methylene Chloride	44	ug/L	J	low	run 2.5 hours past hold time
SDG 5	FB03-09	VOCs	all other volatiles	all	ug/L	J	high	DCE surrogate out high at 124%
SDG 5	FB03-09	VOCs	Methylene Chloride	49	ug/L	J	high	DCE surrogate out high at 124%
SDG 5	FB03-09	VOCs	Acetone	10	ug/L	J	low	Continuing calibration %D is -30.3%, ICAL %RSD is 51.5
SDG 5	TB04-09	VOCs	Acetone	<10	ug/L	UJ	low	Continuing calibration %D is -30.3%
SDG 5	MW37-09	VOCs	Acetone	5	ug/L	J	low	Continuing calibration %D is -30.3%, ICAL %RSD is 51.5
SDG 5	MW23-09	VOCs	Acetone	7	ug/L	J	high	Continuing calibration %D is -30.3%, ICAL %RSD is 51.5
SDG 5	FB05-09	VOCs	Acetone	23	ug/L	J	high	ICAL %RSD is 51.5
SDG 5	MW43-09	SVOCs	all semivolatiles	ND	ug/L	UJ	low	2-Fluorobiphenyl surrogaté out at 32% (35- 114)
SDG 5	MW43-09	SVOCs	all semivolatiles	ND	ug/L	UJ	low	2-Chlorophenol-d4 out at 32% (33-110) advisory
SDG 5	MW47-09	SVOCs	4-Nitrophenol	<10	ug/L	UJ	high	MS/MSD recovery 97%/94%, (10-80)
SDG 5	MW47-09	SVOCs	4-Chloro-3-methylphenol	<10	ug/L	UJ	high	MSD recovery 99% (23-97)
SDG 5	MW47-09	SVOCs	1,4-Dichlorobenzene	<10.	ug/L	UJ	NDT	MS/MSD RPD is 44, limit is 28
SDG 5	FB03-09	SVOCs	Pentachlorophenol	<25	ug/L		low	Continuing calibration %RSD -38.7%
SDG 5	MW23-09	SVOCs	Pentachlorophenol	<25	ug/L		iow	Continuing calibration %RSD -38.7%
SDG 5	MW37-09	SVOCs	Pentachlorophenol	<26	ug/L		low	Continuing calibration %RSD -38.7%
SDG 5	MW24-09	SVOCs	Pentachlorophenol	<25	ug/L	UJ	low	Continuing calibration %RSD -38.7%, Nitrobenzene-d5 surrogate out at 120% (35- 114), 2,4,6-Tribromophenol surrogate out at 131% (10-123)
SDG 5	FB05-09	SVOCs	Pentachlorophenol	<27	ug/L	UJ	low	Continuing calibration %RSD -38.7%, Nitrobenzene-d5 surrogate out at 120% (35-114)
SDG 5	MW29-09	SVOCs	Pentachlorophenol	<25	ug/L	UJ	low	Continuing calibration %RSD -38.7%
SDG 5	FB04-09	SVOCs	Pentachlorophenol	<25	ug/L		low	Continuing calibration %RSD -38.7%, Nitrobenzene-d5 surrogate out at 130% (35- 114)
SDG 5	MW47-09	Pesticides	gamma-BHC (Lindane)	<.049	ug/L	UJ	NDT	MS/MSD RPD is 34, limit is 15

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
SDG 5	MW47-09	Pesticides	Heptachlor	<.049	ug/L	UJ	NDT	MS/MSD RPD is 32, limit is 20
SDG 5	MW47-09	Pesticides	Aldrin	<.049	ug/L		NDT	MS/MSD RPD is 30, limit is 22
SDG 5	MW47-09	Pesticides	Dieldrin	<0.98	ug/L		NDT	MS/MSD RPD is 25, limit is 18
SDG 5	MW47-09	Pesticides	Endrin	< 0.98	ug/L		NDT	MS/MSD RPD is 29, limit is 21
SDG5	FB02-09	VOCs	Methylene Chloride	8	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	7	ug/L	JB	high	Reported between MDL and CRDL, ICAL %RSD is 51.5
		VOCs	Benzene	4	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Toluene	3	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	1,2-Dichloroethene	2	ug/L		NDT	Reported between MDL and CRDL
	FB03-09	VOCs	Chloroform	1	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	2-Butanone	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	4-Methyl-2-pentanone	1	ug/L	J	NDT	Reported between MDL and CRDL
	FB03-09RE	VOCs	Acetone	10	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Chloroform	1	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	2-Butanone	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	4-Methyl-2-pentanone	1	ug/L	J	NDT	Reported between MDL and CRDL
	FB04-09	VOCs	Methylene Chloride	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	3	ug/L	j	high	Reported between MDL and CRDL, ICAL %RSD is 51.5
	FB05-09	VOCs	Chloroform	1	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	2-Butanone	3	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	4-Methyl-2-pentanone	2	ug/L	J	NDT	Reported between MDL and CRDL
•		VOCs	Toluene	2	ug/L	J	NDT	Reported between MDL and CRDL
	M1S-09	VOCs	Benzene	2	ug/L		NDT	Reported between MDL and CRDL
	MW23-09	VOCs	Methylene Chloride	4	ug/L	JB	high	Reported between MDL and CRDL, Blank contamination from FB03-09.
		VOCs	Acetone	7	ug/L	J	NDT	Reported between MDL and CRDL
	MW24-09	VOCs	Methylene Chloride	4	ug/L	JB	high	Reported between MDL and CRDL, Blank contamination from FB05-09.
		VOCs	Acetone	4	ug/L	JB	high	Reported between MDL and CRDL, ICAL %RSD is 51.5, Blank contamination from FB05-09.
	MW29-09	VOCs	Methylene Chloride	2	ug/L	J	NDT	Reported between MDL and CRDL

D	Field ID	Analysis	Analyte	result	unit 1	flag	bias	comment
		VOCs	Acetone	2	ug/L	J	high	Reported between MDL and CRDL, ICAI %RSD is 51.5
	MW30-09	VOCs	Methylene Chloride	4	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	3	ug/L	J	high	Reported between MDL and CRDL, ICAl %RSD is 51.5
	MW33-09	VOCs	Methylene Chloride	9	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	8	ug/L	JB	high	Reported between MDL and CRDL, ICA %RSD is 51.5
		VOCs	2-Butanone	1	ug/L	JB	NDT	Reported between MDL and CRDL
	MW37-09	VOCs	Methylene Chloride	4	ug/L	JB	high	Reported between MDL and CRDL, Blar contamination from FB03-09.
		VOCs	Acetone	5	ug/L	J	NDT	Reported between MDL and CRDL
	MW43-09	VOCs	Methylene Chloride	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	4	ug/L	J	high	Reported between MDL and CRDL, ICA %RSD is 51.5
	MW46-09	VOCs	Methylene Chloride	3 -	ug/L	J	NDT	Reported between MDL and CRDL
	MW47-09	VOCs	Methylene Chloride	2			NDT	Reported between MDL and CRDL
	MW51-09	VOCs	Methylene Chloride	8	ug/L	J	NDT	Reported between MDL and CRDL
	TB03-09	VOCs	Methylene Chloride	3	ug/L		NDT	Reported between MDL and CRDL
		VOCs	Acetone	2	ug/L	J	high	Reported between MDL and CRDL, ICA %RSD is 51.5
	TB04-09	VOCs	Methylene Chloride	<b>3</b> ,	ug/L	JB	high	Reported between MDL and CRDL, Bla contamination from FB03-09.
	MW47-09MS	VOCs	Methylene Chloride	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	2	ug/L	J	NDT	Reported between MDL and CRDL
	MW47-09MSD	VOCs	Methylene Chloride	2	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Acetone	1	ug/L	J	NDT	Reported between MDL and CRDL
	FB02-09	SVOCs	bis(2-Ethylhexyl) phthalate	2	ug/L	J	high	Reported between MDL and CRDL, Nitrobenzene-d5 surrogate out at 123% 114)
	MW29-09	SVOCs	bis(2-Ethylhexyl) phthalate	1	ug/L	JB	NDT	Reported between MDL and CRDL
	MW30-09	SVOCs	bis(2-Ethylhexyl) phthalate	1	ug/L	J	NDT	Reported between MDL and CRDL
	MW33-09	SVOCs	bis(2-Ethylhexyl) phthalate	1	ug/L	Ĵ	NDT	Reported between MDL and CRDL

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Field ID	Analysis	Analyte	result	unit flag	bias	comment
FB03-09	Pesticides	delta-BHC	0.0017	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
		Aldrin	0.0046	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
		Methoxychlor	0.01	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
		gamma-Chlordane	0.0015	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
FB04-09		beta-BHC	0.02	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
		delta-BHC	0.0012	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
FB05-09		beta-BHC	0.0079	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
		Endrin aldehyde	0.0049	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
		alpha-Chlordane	0.0015	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
MW23-09		Heptachlor	0.0022	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
MW24-09		beta-BHC	0.0096	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
		delta-BHC	0.003	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
MW29-09		delta-BHC	0.0045	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
		gamma-Chlordane	0.0018	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
MW30-09		4,4'-DDT	0.0066	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
MW33-09		beta-BHC	0.017	ug/L JPB	NDT	Second column delta >25%, reported between MDL and CRDL, associated blan contamination

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Field ID	Analysis	Analyte	result	unit f	lag	bias	comment
		gamma-BHC (Lindane)	0.0025	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
		Heptachlor	0.007	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
		4,4' DDD	0.0024	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
		Methoxychlor	0.0036	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
		alpha-Chlordane	0.0014	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
MW37-09		beta-BHC	0.019	ug/L	J	NDT	Reported between MDL and CRDL
MW43-09		beta-BHC	0.0045	ug/L		NDT	Reported between MDL and CRDL,
				J			associated blank contamination.
MW51-09		alpha-BHC	0.0015	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
MW47-09MS	}	4,4'-DDE	0.0028	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
		4,4'-DDD	0.0037	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
		Endrin ketone	0.03	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
		Endrin aldehyde	0.03	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
MW47-09MSI	)	4,4'-DDE	0.0023	ug/L	J	NDT	Reported between MDL and CRDL
		4,4'-DDD	0.0046	ug/L		NDT	Second column delta >25%, reported between MDL and CRDL
		Endrin ketone	0.035	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
		Endrin aldehyde	0.034	ug/L	JP	NDT	Second column delta >25%, reported between MDL and CRDL
FB02-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
+-		Cyanide	4.7	ug/L		Low	14 day holding time exceeded by 26 days
FB03-09		Mercury	0.05	ug/L		Low	28 day holding time exceeded by 12 days
		Cyanide	4.7	ug/L		Low	14 day holding time exceeded by 26 days

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
	FB04-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	FB05-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L.	UJ	Low	14 day holding time exceeded by 26 days
	MW23-09		Mercury	0.05	ug/L	IJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	MW24-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
	MW29-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	MW30-09		Mercury	0.05		UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26 days
	MW33-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7		UJ	Low	14 day holding time exceeded by 26 days
	MW37-09		Mercury	0.05		UJ	Low	28 day holding time exceeded by 12 days
	MW43-09		Mercury	0.05	ug/L		Low	28 day holding time exceeded by 12 days
			Cyanide	40.6	ug/L	J	Low	14 day holding time exceeded by 26 days
	MW46-09		Mercury	0.05		UJ	Low	28 day holding time exceeded by 12 days
r			Cyanide	4.7		UJ	Low	14 day holding time exceeded by 26 days
	MW47-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L		Low	14 day holding time exceeded by 26 days
	MW51-09		Mercury	0.05	ug/L		Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L		Low	14 day holding time exceeded by 26 days
	FB02-09	Metals	Barium	0.92	ug/L	В	NDT	Reported between the MDL and CRDL
•			Beryllium	0.24	ug/L	В	NDT	Reported between the MDL and CRDL
			Calcium	251	ug/L	В	NDT	Reported between the MDL and CRDL
			Chromium	1.2	ug/L	В	NDT	Reported between the MDL and CRDL
			Iron	38	ug/L	В	NDT	Reported between the MDL and CRDL
			Magnesium	93.1	ug/L	В	NDT	Reported between the MDL and CRDL
			Manganese	0.81	ug/L	В	NDT	Reported between the MDL and CRDL
			Sodium	846	ug/L	В	NDT	Reported between the MDL and CRDL
			Zinc	5.1	ug/L	В	NDT	Reported between the MDL and CRDL
	FB03-09		Barium	0.46	ug/L	В	NDT	Reported between the MDL and CRDL
	<del>-</del>		Beryllium	0.23	ug/L	В	NDT	Reported between the MDL and CRDL
			Calcium	82.3	ug/L	В	NDT	Reported between the MDL and CRDL

Field I	D Analysis	Analyte	result	unit 1	lag	bias	comment
	<del>.</del>	Chromium	1.4	ug/L	В	NDT	Reported between the MDL and CRDL
		Iron	80.6	ug/L	В	NDT	Reported between the MDL and CRDL
		Magnesium	38.5	ug/L	В	NDT	Reported between the MDL and CRDL
		Manganese	0.95	ug/L	В	NDT	Reported between the MDL and CRDL
		Nickel	1.1	ug/L	В	NDT	Reported between the MDL and CRDL
		Sodium	2220	ug/L	В	NDT	Reported between the MDL and CRDL
		Zinc	1.5	ug/L	В	NDT	Reported between the MDL and CRDL
FB04-0	)9	Antimony	10.1	ug/L	В	NDT	Reported between the MDL and CRDL
		Barium	0.52	ug/L	В	NDT	Reported between the MDL and CRDL
		Beryllium	0.32	ug/L	В	NDT	Reported between the MDL and CRDL
•		Calcium	59.4	ug/L	В	NDT	Reported between the MDL and CRDL
		Magnesium	17.3	ug/L	В	NDT	Reported between the MDL and CRDL
		Manganese	0.3	ug/L	В	NDT	Reported between the MDL and CRDL
		Silver	0.66	ug/L	В	NDT	Reported between the MDL and CRDL
		Sodium	559	ug/L	В	NDT	Reported between the MDL and CRDL
		Zinc	2.2	ug/L	В	NDT	Reported between the MDL and CRDL
FB05-0	)9	Barium	1.9	ug/L	В	NDT	Reported between the MDL and CRDL
		Beryllium	0.1	ug/L	В	NDT	Reported between the MDL and CRDL
		Chromium	1.4	ug/L	В	NDT	Reported between the MDL and CRDL
,		Magnesium	12.4	ug/L	В	NDT	Reported between the MDL and CRDL
		Manganese	0.33	ug/L	В	NDT	Reported between the MDL and CRDL
		Silver	0.47	ug/L	В	NDT	Reported between the MDL and CRDL
	•	Sodium	231	ug/L	В	NDT	Reported between the MDL and CRDL
MW11-	09	Arsenic	4.2	ug/L	В	NDT	Reported between the MDL and CRDL
		Lead	1.7	ug/L	В	NDT	Reported between the MDL and CRDL
MW23-	09 '	Antimony	2.3	ug/L	В	NDT	Reported between the MDL and CRDL
		Barium	116	ug/L	В	NDT	Reported between the MDL and CRDL
		Beryllium	0.37	ug/L	В	NDT	Reported between the MDL and CRDL
		Cobalt	1.1	ug/L	В	NDT	Reported between the MDL and CRDL
		Copper	4.7	ug/L	В	NDT	Reported between the MDL and CRDL
		Lead	2.9	ug/L	В	NDT	Reported between the MDL and CRDL
		Nickel	10.6	ug/L	В	NDT	Reported between the MDL and CRDL
		Potassium	2220	ug/L	В	NDT	Reported between the MDL and CRDL
		Vanadium	3.3	ug/L	В	NDT	Reported between the MDL and CRDL

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D	Field ID	Analysis	Analyte	result	unit f	lag	bias	comment
			Zinc	8.6	ug/L	В	NDT	Reported between the MDL and CRDL
	MW24-09		Aluminum	157		В	NDT	Reported between the MDL and CRDL
			Antimony	3.7		В	NDT	Reported between the MDL and CRDL
			Barium	199		В	NDT	Reported between the MDL and CRDL
			Beryllium	0.18		В	NDT	Reported between the MDL and CRDL
			Cadmium	0.84	ug/L	В	NDT	Reported between the MDL and CRDL
			Chromium	5.1	ug/L	В	NDT	Reported between the MDL and CRDL
			Copper	2.9		В	NDT	Reported between the MDL and CRDL
			Nickel	4		В	NDT	Reported between the MDL and CRDL
			Potassium	1130		В	NDT	Reported between the MDL and CRDL
			Vanadium	0.93		В	NDT	Reported between the MDL and CRDL
			Zinc	1.5	ug/L	В	NDT	Reported between the MDL and CRDL
			Cyanide	8.1	ug/L	JB	low	Reported between the MDL and CRDL, 14
								day holding time exceeded by 26 days.
	MW29-09		Barium	116	ug/L		NDT	Reported between the MDL and CRDL
			Beryllium	0.29	ug/L		NDT	Reported between the MDL and CRDL
			Cadmium	0.6	ug/L		NDT	Reported between the MDL and CRDL
			Cobalt	1.1	ug/L		NDT	Reported between the MDL and CRDL
			Copper	8.1	ug/L		NDT	Reported between the MDL and CRDL
			Potassium	2760	ug/L		NDT	Reported between the MDL and CRDL
			Silver	0.45	ug/L		NDT	Reported between the MDL and CRDL
			Vanadium	1.2	ug/L		NDT	Reported between the MDL and CRDL
			Zinc	5.6	ug/L		NDT	Reported between the MDL and CRDL
	MW30-09		Aluminum	109	ug/L		NDT	Reported between the MDL and CRDL
			Antimony	2.6	ug/L		NDT	Reported between the MDL and CRDL
			Beryllium	0.24	_	J	NDT	Reported between the MDL and CRDL
			Cadmium	0.56	-	J	NDT	Reported between the MDL and CRDL
			Chromium	3.9	•	J	NDT	Reported between the MDL and CRDL
			Cobalt	5.3	•	J	NDT	Reported between the MDL and CRDL
			Copper	4.4	ug/L		NDT	Reported between the MDL and CRDL
			Nickel	10.6	ug/L		NDT	Reported between the MDL and CRDL
			Potassium	2230	-	J	NDT	Reported between the MDL and CRDL
			Zinc	2.3	ug/L	J	NDT	Reported between the MDL and CRDL

Field ID	Analysis	Analyte	result	unit fla	ag	bias	comment
MW33-09		Aluminum	90.2	ug/L .	J	NDT	Reported between the MDL and CRDL
		Antimony	2.3	ug/L 、	J	NDT	Reported between the MDL and CRDL
		Beryllium	0.4	ug/L 、		NDT	Reported between the MDL and CRDL
	•	Cadmium	1.5	ug/L 、		NDT	Reported between the MDL and CRDL
		Chromium	5	ug/L 、	J	NDT	Reported between the MDL and CRDL
		Cobalt	2.9	ug/L .	j	NDT	Reported between the MDL and CRDL
		Copper	4.7	ug/L .	J	NDT	Reported between the MDL and CRDL
		Nickel	9.2	ug/L .		NDT	Reported between the MDL and CRDL
		Silver	0.46	ug/L .		NDT	Reported between the MDL and CRDL
		Vanadium	0.94	ug/L 、		NDT	Reported between the MDL and CRDL
		Zinc	1.4	ug/L 、		NDT	Reported between the MDL and CRDL
MW37-09		Barium	24.2	ug/L 、		NDT	Reported between the MDL and CRDL
		Beryllium	0.37	ug/L 、	J	NDT	Reported between the MDL and CRDL
		Chromium	3.7	ug/L 、	J	NDT	Reported between the MDL and CRDL
		Cobalt	0.99	ug/L	J	NDT	Reported between the MDL and CRDL
		Copper	7.1	ug/L	J	NDT	Reported between the MDL and CRDL
		Lead	1.3	ug/L .	j	NDT	Reported between the MDL and CRDL
		Nickel	8.2	ug/L 、	J	NDT	Reported between the MDL and CRDL
		Potassium	1120	ug/L .	J	NDT	Reported between the MDL and CRDL
		Vanadium	1.7	ug/L	J	NDT	Reported between the MDL and CRDL
		Zinc	2.7	ug/L	J	NDT	Reported between the MDL and CRDL
		Cyanide	6.8	ug/L	J	low	Reported between the MDL and CRDL, 14
							day holding time exceeded by 26 days.
MW43-09		Barium	58	ug/L	J	NDT	Reported between the MDL and CRDL
		Beryllium	0.32	ug/L .	J	NDT	Reported between the MDL and CRDL
		Chromium	3.4	ug/L .	J	NDT	Reported between the MDL and CRDL
		Cobalt	2.1	ug/L .		NDT	Reported between the MDL and CRDL
		Copper	1.3	ug/L		NDT	Reported between the MDL and CRDL
		Nickel	4.3	ug/L 、		NDT	Reported between the MDL and CRDL
i		Potassium	465	ug/L .		NDT	Reported between the MDL and CRDL
		Vanadium	1.6	ug/L	J	NDT	Reported between the MDL and CRDL
MW46-09		Aluminum	39.2	ug/L .	J	NDT	Reported between the MDL and CRDL
		Barium	146	ug/L	J	NDT	Reported between the MDL and CRDL

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)	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
			Beryllium	0.21	ug/L	J	NDT	Reported between the MDL and CRDL
			Potassium	798	ug/L	J	NDT	Reported between the MDL and CRDL
			Vanadium	1.8	ug/L	J	NDT	Reported between the MDL and CRDL
			Zinc	2.2	ug/L	J	NDT	Reported between the MDL and CRDL
	MW47-09		Aluminum	130	ug/L	J	NDT	Reported between the MDL and CRDL
			Antimony	2.3	ug/L	J	NDT	Reported between the MDL and CRDL
			Barium	6.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.28	ug/L	J	NDT	Reported between the MDL and CRDL
			Chromium	3.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	0.74	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	1.4	ug/L	J	NDT	Reported between the MDL and CRDL
			Lead	1.6	ug/L	J	NDT	Reported between the MDL and CRDL
			Magnesium	2480	ug/L	J	NDT	Reported between the MDL and CRDL
			Manganese	5.4	ug/L	J	NDT	Reported between the MDL and CRDL
			Nickel	1.8	ug/L	J	NDT	Reported between the MDL and CRDL
			Potassium	613	ug/L	J	NDT	Reported between the MDL and CRDL
			Silver	0.58	ug/L	J	NDT	Reported between the MDL and CRDL
			Sodium	4900	ug/L	J	NDT	Reported between the MDL and CRDL
			Vanadium	0.7	ug/L	J	NDT	Reported between the MDL and CRDL
	MW51-09		Aluminum	166	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.44	ug/L	J	NDT	Reported between the MDL and CRDL
			Cadmium	0.81	ug/L	J	NDT	Reported between the MDL and CRDL
			Chromium	1.6	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	0.76	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	1.7	ug/L	J	NDT	Reported between the MDL and CRDL
			Nickel	3.1	ug/L	J	NDT	Reported between the MDL and CRDL
			Potassium	2410	ug/L	J	NDT	Reported between the MDL and CRDL
			Selenium	3.1	ug/L		NDT	Reported between the MDL and CRDL
			Vanadium	0.77	ug/L	J	NDT	Reported between the MDL and CRDL
	FB02-09		Calcium	251	ug/L		low	CCB conc. Of -49.98
	MW51-09		Zinc	1.1	ug/L		low	CCB conc. Of -5.19
	MW30-09		Zinc	2.3	ug/L		low	CCB conc. Of -5.19
	MW33-09		Zinc	1.4	ug/L		low	CCB conc. Of -5.19
	MW46-09		Zinc	2.2	ug/L	J	low	CCB conc. Of -5.19

ID	Field ID	Analysis	Analyte	result	unit flag	bias	comment
	MW43-09	<del></del>	Zinc	1.1	ug/L UJ	low	CCB conc. Of -5.19
	FB03-09		Calcium	82.3	ug/L J	low	CCB conc. Of -42.52
			Sodium	2220	ug/L J	low	CCB conc. Of -259.60
			Zinc	1.5	ug/L J	low	CCB conc. Of -5.19
	MW37-09		Zinc	2.7	ug/L J	low	CCB conc. Of -5.19
	MW23-09		Zinc	8.6	ug/L J	low	CCB conc. Of -5.19
	MW24-09		Zinc	1.5	ug/L J	low	CCB conc. Of -5.28
	FB04-09		Calcium	59.4	ug/L J	low	CCB conc. Of -50.89
			Zinc	2.2	ug/L J	low	CCB conc. Of -5.28
	MW29-09		Zinc	5.6	ug/L J	low	CCB conc. Of -5.28
	FB05-09		Calcium	10.7	ug/L UJ	low	CCB conc. Of -65.53
			Zinc	1.1	ug/L UJ	low	CCB conc. Of -7.49

#### Notes:

B - Blank contamination possible

CCB - Continuing calibration blank

CCAL - Continuing calibration

CRDL - Contract required detection limit

ICAL - Initial calibration

J - Estimated

MDL - Method detection limit

MS/MSD - Matrix Spike/Matrix Spike Duplicate

P - Value for which the second column result was different by more than 25%

RSD - Relative standard deviation

ug/L - Micrograms per liter

UJ - Practical quantitation limit (PQL) is estimated

#### MEMORANDUM



To:

Trisha Woolslayer, MW

Date:

August 24, 1999

From:

Gilbert Dimidjian, MW

Job No.:

1252042

Subject:

Data Validation for American

SDG:

007

Chemical Service (ACS). Griffith, Indiana.

June 1999

#### INTRODUCTION

The following text is based on the validation of water samples collected at American Chemical Service, Inc. in June of 1999.

Five water samples and two field quality assurance samples were analyzed by CompuChem Laboratories, Cary, North Carolina for the following parameters:

- VOA's by CLP OLM 3.0 (samples MW13-09, MW13-99, MW 53-09, MW52-09, MW49-09, MW34-09, TB05-09)
- SVOA's by CLP OLM 3.0 (samples MW13-09, MW13-99, MW53-09, MW52-09, MW49-09, MW34-09)
- Pesticides/PCB's by CLP OLM 3.0 (samples MW13-09, MW13-99, MW53-09, MW52-09, MW49-09)
- Inorganics by CLP ILM04.0 (samples MW13-09, MW13-99, MW53-09, MW52-09, MW49-09)
- Cyanide by CLP ILM04.0 (samples MW13-09, MW13-99, MW53-09, MW52-09, MW49-09)

Data validation was conducted in accordance with procedures specified in *Pre-Design Activities Quality Assurance Project Plan (MW, 1995), National Functional Guidelines for Organic Data Review (USEPA, 1994a), and National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).* 

The following field quality control samples were collected during the June 1999 sampling round:

- One field duplicate: MW13-99 duplicate of MW13-09; and
- One trip blank: TB05-09

This memorandum contains a narrative summarizing the data quality objectives specified in the work plan, and provides a table of qualified data (Table 1-1 and 1-2) and supporting validation documentation (Attachment A).

#### **SUMMARY**

This section describes the quality control parameters reviewed during validation, summarizes the data quality objectives as a result of the validation and provides a summary of the deficiencies and qualification applied. The following paragraphs describe deficiencies that were identified which resulted in qualification of the sample results. Each analyses is separated into sections for clarity.

## **Volatile Organic Componds**

<u>Major Deficiencies</u>: The following paragraphs describe the major deficiencies identified during the validation process.

### Holding Time

• All samples for this analysis exceeded the holding time requirement of 14 days by one day. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

#### Initial Calibration

• The initial calibration (on 6/20/99;1249) percent relative standard deviation (RSD) for acetone (51.5 percent) were above the control limit of 30 percent. All positive results were qualified as an estimate "J" for acetone. The associated samples were MW13-09, MW13-99, MW 53-09, MW52-09, MW49-09, MW34-09, and TB05-09.

#### Continuing Calibration

• The continuing calibration CS990629B57 for 2-butanone (30.4 percent) and 1,1,2,2-tetrachloroethane (31.3 percent) had a percent difference that exceeded the control limit of ±25 percent. All positive results were qualified as "J" and all non-detects as "UJ". The associated sample was MW49-09.

## Semi-Volatile Organic Compounds

Major Deficiencies: There were no major deficiencies identified during the validation process.

<u>Minor Deficiencies</u>: The following paragraphs describe the minor deficiencies that were identified during the validation process.

#### Initial Calibration

• The initial calibration (on 6/30/99;2221) %RSD for 2,4-dinitrophenol (36.1 percent) exceeded the control limit of 30 percent. All positive results were qualified as "J"

and all non-detects as "UJ". The associated samples were MW13-99, MW13-09, MW52-09, MW53-09, and MW49-09.

#### Continuing Calibration

- Continuing calibration HG990714A66 had a percent difference for 3,3-dichlorobenzidine (28.2 percent) and 2,4-dinitrophenol (34.6 percent) that exceeded the control limit of 25 percent. All positive results were qualified as "J" and all non-detects as "UJ". The associated samples were MW13-99, MW13-09, and MW52-09.
- Continuing calibration HG990715A66 had a percent difference for 2,4-dinitrophenol (31.6 percent), 2,4-dinitrotoluene (28.4 percent), and 4,6-dinitro-2-methylphenol (25.5 percent) that exceeded the control limit of 25 percent. All positive results were qualified as "J" and all non-detects as "UJ". The associated samples were MW53-09 and MW49-09.
- Continuing calibration HG990722B66 had a percent difference for 4-nitroaniline (58.1 percent) and 3,3-dichlorobenzidine (26.6 percent) that exceeded the control limit of 25 percent. No qualification was required because there were no associated samples.

## Pesticides / PCBs

Major Deficiencies: There were no major deficiencies identified during the validation process.

<u>Minor Deficiencies</u>: Several minor deficiencies are outlined in the Data Quality Objectives section.

## **Inorganics / Cyanide**

<u>Major Deficiencies</u>: The following paragraphs describe the major deficiencies identified during the validation process.

#### Holding Time

• All samples analyzed for mercury exceeded the holding time requirement of 28 days by eight days. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

#### Serial Dilution

• The percent difference for potassium (20.1 percent) exceeded the control limit of ±10% in sample MW49-09L. All positive results were qualified as estimated "J".

Due to a laboratory software limitation the interference check (ICS) recoveries for one sample was not reported (7/22/99, 9:09). This had to be hand calculated and verified by the reviewer.

Several samples contained detected concentrations of target analytes at concentrations between the instrument detection limit (IDL) and the contract required detection limit (CRDL). These were qualified as "B" by the laboratory, but during the validation process these qualifications were changed to a "J" flag which indicates an estimate. Table 1-2 summarizes the affected samples and analytes.

### DATA QUALITY OBJECTIVES

The following is a summary of the data quality objectives that were evaluated during the data validation process.

Reporting Limits: Reporting limits were met for all analyses with the following exception.

• For VOCs: Reporting limits were met with the exception of cases in which dilution was necessary. Original, out-of-calibration range data have been included for confirmation of original detection limits and detections, when available. Sample MW52-09 was only analyzed as a dilution due to a high analyte concentration; therefore, no original out of calibration range data was included with this sample package. No data were qualified as a result

#### **Accuracy**

<u>Laboratory Control Sample:</u> Validation of the LCS was not performed for the organic analyses because the data was not provided by the laboratory and is not required per OLM 3.0. The LCS for the inorganic analyses were within control limits and analyzed at the correct frequency.

<u>Surrogates:</u> The surrogate results were within laboratory specified limits with the following exceptions.

- For SVOCs: Surrogate 2,4,6-tribromophenol had recoveries above the upper control limit with a high bias. No qualification was required because it meet criteria set forth by the method.
- For Pesticides/PCBs: Surrogate recoveries for DCB were below the lower control limits but were within 10 and 30 percent. All compounds with detections were qualified as "J" and non-detects "UJ". The associated samples include MW53-09, MW52-09, and MW49-09.

Matrix Spike / Matrix Spike Duplicate: The MS/MSD results were within laboratory specified limits with the following exceptions.

- For SVOCs: MS/MSD recoveries exceeded the upper control limits, with a high bias. No qualification was required.
- For Pesticides/PCBs: MS recoveries for various compounds were below control limits, which represented a bias low. All associated data with positive results were qualified as "J" and non-detects were qualified as "UJ". Surrogates had poor recoveries and the RPD were out of control as well.

#### Precision

<u>Field Duplicates:</u> Field duplicate results were acceptable.

<u>Laboratory Duplicate Sample:</u> For inorganics / cyanide: Lab duplicate MW49-09D had RPDs which exceeded the control limit ranges for antimony, beryllium, cobalt, and copper. All positive results were qualified as estimated "J".

The overall results were acceptable, indicating that sampling and analytical precision objectives were met for the sampling event.

### Completeness

The data package was complete for the requested analyses. No results were considered unusable. The completeness was 100 percent, which meets the completeness objective of 95 percent.

### Representativeness:

Trip blank TB05-99, had no target analytes detected above the reporting limit for all analyses, indicating that the representativeness objectives for the sampling event were met.

### Comparability:

All data were reported in similar units to facilitate comparison of results within the data packages. Samples arrived at the laboratory at 4°C, which is within the limits of 2-6°C. It should be noted that several samples were analyzed by EPA method CLP-VOA OLM3.0, CLP-SVOA OLM3.0, and CLP-Inorganics OLM 4.0 were analyzed after the recommended holding time. Because of the holding time exceedence, comparability might be affected.

As a result of this evaluation, all data within this SDG for wells at American Chemical Service are of known and acceptable quality in relation to the DQOs of this project. Although significant qualification were required due to holding time violation, the data are considered usable as qualified for the intended purposes. Table 1-1 and 1-2 summarizes the validation and laboratory qualifications for this sampling event.

#### REFERENCES

Pre-Design Activities Quality Assurance Project Plan, American Chemical Service, Inc. NPL Site, Griffith Indiana (MW, 1995).

National Functional Guidelines for Organic Data Review (USEPA, 1994a).

National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
945706	MW13-09	Chloromethane	10	μg/L	UJ	Low	Missed Holding Time
	(VOC)	Bromomethane	10	μg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	10	μg/L	UJ	Low	Missed Holding Time
		Chloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Methylene Chloride	10	μg/L	UJ	Low	Missed Holding Time
		Acetone	4	μg/L	JВ	Low	Missed HT / IC %RSD>30% / blnk contam. / below RL
		Carbon Disulfide	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Chloroform	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		2-Butanone	10	μg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	μg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	μg/L	UJ	Low	Missed Holding Time
	•	cis-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Benzene	10	μg/L	UJ	Low	Missed Holding Time
		trans-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
		Bromoform	10	μg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	10	μg/L	UJ	Low	Missed Holding Time
		2-Hexanone	10	μg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Toluene	10	μg/L	UJ	Low	Missed Holding Time
		Chlorobenzene	10	μg/L	UJ	Low	Missed Holding Time



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW13-09	Ethylbenzene	10	μg/L	UJ	Low	Missed Holding Time
,	(VOC)	Styrene	10	μg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	10	μg/L	UJ	Low	Missed Holding Time
	(SVOC)	bis (2-ethylhexyl) phthalate	1	μg/L	J	NDT	Detected below RL
		2,4-Dinitrophenol	25	μg/L	UJ	High	IC > CL / CC > CL
		3,3-Dichlorobenzidine	10	μg/L	UJ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
	,	beta - BHC	0.0055	μg/L	JР	Low	MS %R < CL / MSD RPD > CL />25% diff. btwn 2 columns/below RL
		delta - BHC	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		gamma - BHC (Lindane)	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Heptachlor	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Aldrin	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Heptachlor epoxide	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endosulfan I	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
•		Dieldrin	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		4,4' - DDE	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin	0.10	μg/L	UJ	Low	MS $%R < CL / MSD RPD > CL$
		Endosulfan II	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		4,4' - DDD	0.10	μg/L	UJ	Low	MS $%R < CL / MSD RPD > CL$
		Endosulfan sulfate	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		4,4' - DDI	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Methoxychlor	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin ketone	0.0042	μg/L	JP	Low	MS %R < CL / MSD RPD > CL / >25% diff btwn 2 columns/below RL
		Endrin aldehyde	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		alpha - Chlordane	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		gamma - Chlordane	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Toxaphene	5.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW13-09	Arochlor - 1016	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
	(Pest/PCB)	Arochlor - 1221	2.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1232	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1242	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1248	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1254	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1260	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
945669	MW13-99	Chloromethane	10	μg/L	UJ	Low	Missed Holding Time
	(VOC)	Bromomethane	10	μg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	10	μg/L	UJ	Low	Missed Holding Time
		Chloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Methylene Chloride	2	μg/L	J	Low	Missed Holding Time / blank contamination / below RL
		Acetone	2	μg/L	JB	Low	Missed HT / IC %RSD>30% / blnk contam. / below RL
		Carbon Disulfide	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Chloroform	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		2-Butanone	10	μg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	μg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	μg/L	UJ	Low	Missed Holding Time
		cis-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Benzene	10	μg/L	UJ	Low	Missed Holding Time



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW13-99	trans-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
(=====,	(VOC)	Bromoform	10	μg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	10	μg/L	UJ	Low	Missed Holding Time
		2-Hexanone	10	μg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Toluene	10	μg/L	UJ	Low	Missed Holding Time
		Chlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		Ethylbenzene	10	μg/L	UJ	Low	Missed Holding Time
		Styrene	10	μg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	10	μg/L	UJ	Low	Missed Holding Time
	(SVOC)	2,4-Dinitrophenol	25	μg/L	UJ	High	IC > CL / CC > CL
		3,3-Dichlorobenzidine	10	μg/L	Πĵ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		beta - BHC	0.0067	μg/L	JP	Low	MS %R < CL / MSD RPD > CL />25% diff. btwn 2 columns/below RL
		delta - BHC	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		gamma - BHC (Lindane)	0.0043	μg/L	J	Low	MS %R < CL / MSD RPD > CL / below RL
		Heptachlor	0.0031	μg/L	JP	Low	MS %R < CL / MSD RPD > CL />25% diff. btwn 2 columns/below RL
		Aldrin	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Heptachlor epoxide	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endosulfan I	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Dieldrin	0.0056	μg/L	J	Low	MS %R < CL / MSD RPD > CL />25% diff. btwn 2 columns/below RL
		4,4' - DDE	0.10	μg/L	UJ .	Low	MS %R < CL / MSD RPD > CL
		Endrin	0.0060	μg/L	J	Low	MS %R < CL / MSD RPD > CL / below RL
		Endosulfan II	0.10	μg/L	UJ	Low	MS $%R < CL / MSD RPD > CL$



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW13-99	4,4' - DDD	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
, ,	(Pest/PCB)	Endosulfan sulfate	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		4,4' - DDT	0.0076	μg/L	J	Low	MS %R < CL / MSD RPD > CL / below RL
		Methoxychlor	0.50	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin ketone	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin aldehyde	0.10	μg/L	UJ	Low	MS %R < CL / M\$D RPD > CL
		alpha - Chlordane	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		gamma - Chlordane	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Toxaphene	5.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1016	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1221	2.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1232	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1242	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1248	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1254	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1260	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
945707	MW34-09	Vinyl Chloride	10	μg/L	UJ	Low	Missed Holding Time
	(VOC)	Chloroethane	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Benzene	10	μg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	μg/L	UJ	Low	Missed Holding Time
		cis-1,2-Dichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		trans-1,2-Dichloroethene	10	μg/L	UJ	Low	Missed Holding Time



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
945689	MW49-09	Chloromethane	10	μg/L	UJ	Low	Missed Holding Time
	(VOC)	Bromomethane	10	μg/L	UJ	Low	Missed Holding Time
	, ,	Vinyl Chloride	10	μg/L	UJ	Low	Missed Holding Time
		Chloroethane	220	μg/L	DJ	Low	Missed Holding Time / Diluted
		Methylene Chloride	2	μg/L	J	Low	Missed Holding Time / blank contamination
		Acetone	9	μg/L	JB	Low	Missed HT / IC %RSD>30% / blnk contam. / below RL
		Carbon Disulfide	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Chloroform	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		2-Butanone	1	μg/L	JB	Low	Missed Holding Time / blnk contam. / CC > CL / below RL
		1,1,1-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	μg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	μg/L	UJ	Low	Missed Holding Time
•		cis-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Benzene	2600	μg/L	JD	Low	Missed Holding Time / Diluted
		trans-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
		Bromoform	10	μg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	10	μg/L	UJ	Low	Missed Holding Time
		2-Hexanone	10	μg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	μg/L	UJ	Low	Missed Holding Time / CC > CL
		Toluene	1	μg/L	J	Low	Missed Holding Time / below RL



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW49-09	Chlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
	(VOC)	Ethylbenzene	10	μg/L	UJ	Low	Missed Holding Time
		Styrene	10	μg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	2	μg/L	J	Low	Missed Holding Time / below RL
	(SVOC)	2,2-oxybis (1-Chloropropane)	9	μg/L	. ј	NDT	Detected below RL
		Isophorone	3	μg/L	J	NDT	Detected below RL
		2,4-Dinitrophenol	25	μg/L	UJ	High	IC > CL / CC > CL
		2,4-Dinitrotoluene	10	μg/L	UJ	High	CC > CL
		4,6-Dinitro-2-Methylphenol	25	μg/L	UJ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.048	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
	,	beta - BHC	0.048	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		delta - BHC	0.0019	μg/L	JР	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		gamma - BHC (Lindane)	0.048	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
•		Heptachlor	0.0083	μg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		Aldrin	0.048	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor epoxide	0.048	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan I	0.048	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Dieldrin	0.095	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDE	0.095	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin	0.095	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan II	0.095	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDD	0.095	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan sulfate	0.095	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDT	0.095	μg/L	UJ	·Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Methoxychlor	0.48	μg/L	UJ <sub>.</sub>	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW49-09	Endrin ketone	0.0044	μg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
	(Pest/PCB)	Endrin aldehyde	0.095	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		alpha - Chlordane	0.048	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		gamma - Chlordane	0.048	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Toxaphene	4.8	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1016	0.95	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1221	1.9	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1232	0.95	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1242	0.95	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1248	0.95	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1254	0.95	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1260	0.95	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
945688	MW52-09	Chloromethane	100	μg/L	UJ	Low	Missed Holding Time
		Bromomethane	100	μg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	100	μg/L	UJ	Low	Missed Holding Time
		Chloroethane	100	μg/L	UJ	Low	Missed Holding Time
		Methylene Chloride	100	μg/L	UJ	Low	Missed Holding Time
		Acetone	100	μg/L	UJ	Low	Missed Holding Time / IC %RSD >30%
		Carbon Disulfide	100	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	100	μg/L	UJ	Low	Missed Holding Time
•		1,1-Dichloroethane	100	μg/L	UJ	Low	Missed Holding Time
		Chloroform	100	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	100	μg/L	UJ	Low	Missed Holding Time
		2-Butanone	100	μg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	100	μg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	100	μg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	100	μg/L	UJ	Low	Missed Holding Time



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW52-09	1,2-Dichloropropane	100	μg/L	UJ	Low	Missed Holding Time
	(VOC)	cis-1,3-Dichloropropene	100	μg/L	UJ	Low	Missed Holding Time
		Trichloroethene	100	μg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	100	μg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	100	μg/L	UJ	Low	Missed Holding Time
		Benzene	100	μg/L	UJ	Low	Missed Holding Time
		trans-1,3-Dichloropropene	100	μg/L	UJ	Low	Missed Holding Time
		Bromoform	100	μg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	100	μg/L	UJ	Low	Missed Holding Time
		2-Hexanone	100	μg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	100	μg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	100	μg/L	UJ	Low	Missed Holding Time
		Toluene	100	μg/L	UJ	Low	Missed Holding Time
		Chlorobenzene	100	μg/L	UJ	Low	Missed Holding Time
		Ethylbenzene	100	μg/L	UJ	Low	Missed Holding Time
		Styrene	100	μg/L	UJ	Low	Missed Holding Time
		Xylene (total)	100	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	100	μg/L	UJ	Low	Missed Holding Time
	(SVOC)	bis(2-ethylhexyl)phthalate	6	μg/L	J	NDT	Detected below RL
		2,4-Dinitrophenol	25	μg/L	UJ	High	IC > CL / CC > CL
		3,3-Dichlorobenzidine	10	μg/L	UJ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		beta - BHC	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		delta - BHC	0.0025	μg/L	J	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		gamma - BHC (Lindane)	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW52-09	Aldrin	0.050	— μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
	(Pest/PCB)	Heptachlor epoxide	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan I	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Dieldrin	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDE	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan II	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDD	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan sulfate	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDT	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Methoxychlor	0.50	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin ketone	0.0038	μg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below R
		Endrin aldehyde	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		alpha - Chlordane	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		gamma - Chlordane	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Toxaphene	5.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
•		Arochlor - 1016	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1221	2.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1232	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1242	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1248	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1254	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1260	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
945704	MW53-09	Chloromethane	10	μg/L	UJ	Low	Missed Holding Time
	(VOC)	Bromomethane	10	μg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	10	μg/L	UJ	Low	Missed Holding Time
		Chloroethane	10	μg/L	UJ	Low	Missed Holding Time



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW53-09	Methylene Chloride	100	μg/L	J	Low	Missed Holding Time / blank contamination
	(VOC)	Acetone	30	μg/L	JB	Low	Missed Holding Time / IC %RSD>30% / blnk contam.
		Carbon Disulfide	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Chloroform	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		2-Butanone	3	μg/L	JВ	Low	Missed Holding Time / blnk contam. / below RL
		1,1,1-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	μg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	μg/L	UJ	Low	Missed Holding Time
		cis-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
•		Benzene	4	μg/L	J	Low	Missed Holding Time / below RL
		trans-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
		Bromoform	10	μg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	3	μg/L	JB	Low	Missed Holding Time / blnk contam. / below RL
		2-Hexanone	10	μg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	μg/L	UJ	Low	Missed Holding Time
•		Toluene	1	μg/L	J	Low	Missed Holding Time / below RL
		Chlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		Ethylbenzene	10	μg/L	UJ	Low	Missed Holding Time
		Styrene	10	μg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	μg/L	UJ	Low	Missed Holding Time



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW53-09 (VOC)	1,2-Dichloroethene (total)	10	μg/L	UJ	Low	Missed Holding Time
	(SVOC)	2,4-Dinitrophenol	25	μg/L	UJ	High	IC > CL / CC > CL
		2,4-Dinitrotoluene	10	μg/L	UJ	High	CC > CL
		4,6-Dinitro-2-Methylphenol	25	μg/L	UJ	High	CC > ÇL
	(Pest/PCB)	alpha - BHC	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
	,	beta - BHC	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		delta - BHC	0.0082	μg/L	J	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		gamma - BHC (Lindane)	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor	0.0085	μg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		Aldrin	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor epoxide	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan I	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Dieldrin	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDE	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan II	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDD	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan sulfate	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDT	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Methoxychlor	0.50	μg/L	UJ	Low	MS $%R < CL / MSD RPD > CL / Surrogate %R < CL$
		Endrin ketone	0.0069	μg/L	JP	Low	MS $\%$ R < CL / MSD RPD > CL / Surrogate $\%$ R < CL / below RL
		Endrin aldehyde	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		alpha - Chlordane	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		gamma - Chlordane	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
	•	Toxaphene	5.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW53-09	Arochlor - 1016	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
` ,	(Pest/PCB)	Arochlor - 1221	2.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
	, ,	Arochlor - 1232	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1242	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1248	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1254	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1260	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
945708	TB05-09	Chloromethane	10	μg/L	UJ	Low	Missed Holding Time
	(VOC)	Bromomethane	10	μg/L	UJ	Low	Missed Holding Time
	, ,	Vinyl Chloride	10	μg/L	UJ	Low	Missed Holding Time
		Chloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Methylene Chloride	2	μg/L	J	Low	Missed Holding Time / blank contamination / below RL
		Acetone	2	μg/L	JB	Low	Missed Holding Time / blnk contam. / below RL
		Carbon Disulfide	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	μg/L	UJ	Low	Missed Holding Time
•		1,1-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Chloroform	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		2-Butanone	10	μg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	μg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	μg/L	UJ	Low	Missed Holding Time
		cis-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	TB05-09	Benzene	10	паЛ	UJ	Low	Missed Holding Time
(cont.)	(VOC)	trans-1,3-Dichloropropene	10	μg/L μg/L	UJ	Low	Missed Holding Time  Missed Holding Time
	(VOC)	• •					
		Bromoform	10	μg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	10	μg/L	UJ	Low	Missed Holding Time
		2-Hexanone	10	μg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Toluene	10	μg/L	UJ	Low	Missed Holding Time
		Chlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		Ethylbenzene	10	μg/L	UJ	Low	Missed Holding Time
		Styrene	10	μg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	10	μg/L	UJ	Low	Missed Holding Time

B - Blank contamination

CC - Continuing calibration

CL - Control limit

D - Sample was diluted

HT - Holding time

IC - Initial calibration

J - Estimated value

μg/L - micrograms/Liter

MS - Matrix spike

MSD - Matrix spike duplicate

NDT - Not Determined

R - Recovery

RL - Reporting limit

RPD - Relative percent deviation

RSD - Relative standard deviation

U - The associated value is at or below MDL.



# SUMMARY OF INORGANIC DATA QUALIFICATIONS SDG 007 AMERICAN CHEMICAL SERVICE, INC. GRIFFITH, INDIANA

(Page 1 of 3)

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
945706	MW13-09	Aluminum	50.2	μg/L	J	NDT	Detected below RL
	:	Arsenic	2.2	μg/L	J	NDT	Detected below RL
		Barium	83.2	μg/L	J	NDT	Detected below RL
		Beryllium	0.19	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Cadmium	1.2	μg/L	J	NDT	Detected below RL
		Mercury	0.02	μg/L	UJ	Low	Missed Holding Time
		Nickel	1.4	μg/L	J	NDT	Detected below RL
		Potassium	1720	μg/L	JВ	High	Serial Dilution %Difference > CL / below RL
		Vanadium	0.89	μg/L	J	NDT	Detected below RL
		Zinc	2.0	μg/L	J	NDT	Detected below RL
945669	MW13-99	Aluminum	51.1	μg/L	J	NDT	Detected below RL
		Antimony	2.1	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Barium	84.1	μg/L	J	NDT	Detected below RL
		Beryllium	0.23	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Cadmium	1.3	μg/L	J	NDT	Detected below RL
٠		Mercury	0.02	μg/L	JB	Low	Missed Holding Time / below RL
		Nickel	1.3	μg/L	J	NDT	Detected below RL
		Potassium	1650	μg/L	JB	High	Serial Dilution %Difference > CL / below RL
		Vanadium	1.1	μg/L	J	NDT	Detected below RL
945707	MW34-09	Aluminum	119	μg/L	J	NDT	Detected below RL
		Barium	187	μg/L	J	NDT	Detected below RL
		Cadmium	0.58	μg/L	J	NDT	Detected below RL
		Cobalt	0.70	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Copper	7.7	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Lead	1.1	μg/L	J	NDT	Detected below RL



# SUMMARY OF INORGANIC DATA QUALIFICATIONS SDG 007 AMERICAN CHEMICAL SERVICE, INC. GRIFFITH, INDIANA

(Page 2 of 3)

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW34-09	Mercury	0.02	μg/L	UJ	Low	Missed Holding Time
		Nickel	12.3	μg/L	J	NDT	Detected below RL
		Potassium	3820	μg/L	JВ	High	Serial Dilution %Difference > CL / below RL
		Zinc	5.6	μg/L	J	NDT	Detected below RL
945689	MW49-09	Antimony	42.4	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Barium	117	μg/L	J	NDT	Detected below RL
		Beryllium	0.53	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Chromium	1.9	μg/L	J	NDT	Detected below RL
		Cobalt	1.3	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Copper	2.0	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Mercury	0.02	μg/L	UJ	Low	Missed Holding Time
		Nickel	5.5	μg/L	J	NDT	Detected below RL
		Potassium	4030	μg/L	JB	High	Serial Dilution %Difference > CL / below RL
		Selenium	3.5	μg/L	J	NDT	Detected below RL
		Thallium	8.0	μg/L	J	NDT	Detected below RL
•		Vanadium	3.6	μg/L	J	NDT	Detected below RL
		Zinc	10.3	μg/L	J	NDT	Detected below RL
945688	MW52-09	Arsenic	3.3	μg/L	J	NDT	Detected below RL
		Beryllium	0.16	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Cadmium	0.86	μg/L	J	NDT	Detected below RL
		Chromium	3	μg/L	J	NDT	Detected below RL
		Cobalt	1.1	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Copper	1.9	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Cyanide	9	μg/L	J	NDT	Detected below RL
		Mercury	0.02	μg/L	UJ	Low	Missed Holding Time



# SUMMARY OF INORGANIC DATA QUALIFICATIONS SDG 007 AMERICAN CHEMICAL SERVICE, INC. GRIFFITH, INDIANA

## (Page 3 of 3)

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW52-09	Nickel	5	μg/L	J	NDT	Detected below RL
		Potassium	2360	μg/L	JB	High	Serial Dilution %Difference > CL / below RL
		Silver	0.36	μg/L	J	NDT	Detected below RL
		Vanadium	1.3	μg/L	J	NDT	Detected below RL
		Zinc	1.2	μg/L	J	NDT	Detected below RL
945704	MW53-09	Antimony	3.3	μg/L	JB	High	. Duplicate %RPD > CL / below RL
		Arsenic	3.4	μg/L	J	NDT	Detected below RL
		Beryllium	0.29	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Cadmium	1.4	μg/L	J	NDT	Detected below RL
		Chromium	2.3	μg/L	J	NDT	Detected below RL
		Cobalt	3.2	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Mercury	0.08	μg/L	JB	Low	Missed Holding Time / below RL
		Nickel	8.6	μg/L	J	NDT	Detected below RL
		Potassium	20900	μg/L	J	High	Serial Dilution %Difference > CL
		Vanadium	1.9	μg/L	J	NDT	Detected below RL
		Zinc	1.5	μg/L	J	NDT	Detected below RL

B - The associated value is detected above the IDL, but below the CRDL.

CL - Control limit

CRDL - Contract required detection limit

IDL - Instrument detection limit

J - Estimated value

μg/L - micrograms/Liter

RL - Reporting limit

RPD - Relative percent deviation

U - The associated value is at or below IDL.

**Project:** 

ACS – quarterly GW sampling

**Analysis:** 

Nitrate/Nitrite.

Sulfate, TKN, Ammonia,

TOC

o-Phos.

Number:

34200

Matrix:

Water

Validated by:

**JFW** 

Date:

10/12/99

SDG:

00002

This narrative summarizes the results of the data validation of one groundwater sample from the American Chemical Service (ACS) site. The quarterly groundwater monitoring sample was analyzed by CompuChem for natural attenuation parameters. Data validation was performed using the USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994). Based on the data validation, the data are valid and are acceptable for use in site evaluation. The following summarizes the results of the data validation.

**Holding Time:** Holding times were met for all analyses.

Instrument Performance: Not applicable.

Calibration: Initial and continuing calibration results met acceptance criteria.

Blanks: Method blanks were free of target analytes.

Surrogates: Not applicable.

Matrix Spikes: Sample ID MW18-09 was selected for MS/MSD analyses. Results met acceptance

criteria for all analyses.

Field duplicates: Field duplicates were not analyzed.

**Internal Standards:** Not applicable.

Compound Identification: Not applicable.

System Performance: Not applicable.

Sample Results: The sample results are acceptable according to the QC results and raw data provided.

Project:

ACS – quarterly GW sampling

**Analysis:** 

o-Phos, Nitrate/Nitrite.

Sulfate, TKN, Ammonia,

TOC

Number:

34200

Matrix:

Water

Validated by:

**JFW** 

Date:

10/12/99

00003 SDG:

This narrative summarizes the results of the data validation of one groundwater sample from the American Chemical Service (ACS) site. The quarterly groundwater monitoring sample was analyzed by CompuChem for natural attenuation parameters. Data validation was performed using the USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994). Based on the data validation, the data are valid and are acceptable for use in site evaluation. The following summarizes the results of the data validation.

Holding Time: Holding times were met for all analyses.

Instrument Performance: Not applicable.

Calibration: Initial and continuing calibration results met acceptance criteria.

Blanks: Method blanks were free of target analytes.

Surrogates: Not applicable.

Matrix Spikes: Sample ID ACSGWMW19-09 was selected for MS/MSD analyses. Results met acceptance criteria with the exception of TKN. Percent recoveries were less than one due to dilution required for analysis, therefore sample results were not qualified.

Field duplicates: Field duplicates were not analyzed.

Internal Standards: Not applicable.

Compound Identification: Not applicable.

System Performance: Not applicable.

Sample Results: The sample results are acceptable according to the QC results and raw data provided.

**Project:** 

ACS - quarterly GW sampling

**Analysis:** 

o-Phos.

Nitrate/Nitrite,

Sulfate. TOC

TKN, Ammonia,

Number:

34200

Matrix:

Water

Validated by: JFW

Date: 10/12/99

SDG:

00007

This narrative summarizes the results of the data validation of one groundwater sample from the American Chemical Service (ACS) site. The quarterly groundwater monitoring sample was analyzed by CompuChem for natural attenuation parameters. Data validation was performed using the USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994). Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please see Table 1 for a summary of qualified results.

Holding Time: Holding times were met for all analyses with the exception of TKN in sample IDs MW48-09 and MW48-99. TKN results for these samples are qualified with a J as estimates.

Instrument Performance: Not applicable.

Calibration: Initial and continuing calibration results met acceptance criteria.

Blanks: Method blanks were free of target analytes.

Surrogates: Not applicable.

Matrix Spikes: Sample ID ACSGWMW19-09 was selected for MS/MSD analyses. Results met acceptance criteria with the exception of TKN. Percent recoveries were less than one due to dilution required for analysis, therefore sample results were not qualified.

Field duplicates: Field duplicate results were in good agreement.

Internal Standards: Not applicable.

Compound Identification: Not applicable.

System Performance: Not applicable.

Sample Results: The sample results are acceptable as qualified according to the QC results and raw data provided.

QC data was not provided by the laboratory, thus data quality could not be fully evaluated.

Table 1-1
Summary of Qualified Data for ACS Quarterly Groundwater Monitoring (SDG0007 – June '99)

Sample	Compound	Concentration	Qualifiers	Reason
	general control of the	(mg/L)		the second of th
MW48-09R	Total Kjeldahl Nitrogen	5.1	J	Samples was analyzed one day past the 28 day holding time, thus result is an estimate.
MW48-99	Total Kjeldahl Nitrogen	5.3	J	Samples was analyzed one day past the 28 day holding time, thus result is an estimate.

J Data are considered estimated

Project:

ACS - quarterly GW sampling

Analysis:

**BODs** 

Number:

99-0438

Date:

Matrix:

Water

Validated by: JFW

11/04/99

SDG: NA

This narrative summarizes the results of the data validation of three groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by TriTest, Inc. for Biological Oxygen Demand (BOD) by EPA Method 405.1. Data validation was performed using the USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994). Based on the data validation, the data are valid and acceptable for use in site evaluation. The following summarizes the results of the data validation.

Holding Time: All samples were analyzed within specified holding times.

**Instrument Performance:** Not applicable.

Calibration: Samples were analyzed under acceptable calibration.

Blanks: Blanks were free of BOD at the reporting limit.

Surrogates: Not applicable.

Matrix Spikes: Not applicable.

Field duplicates: There were no field duplicates.

Internal Standards: Not applicable.

Compound Identification: Not applicable.

System Performance: Not applicable.

Sample Results: All QC criteria were met and results correctly reported based on the raw data.

Project:

ACS - quarterly GW sampling

Analysis:

**BODs** 

Number:

99-0433

Matrix:

Water

Validated by: JFW

Date:

11/02/99

SDG:

NA

This narrative summarizes the results of the data validation of five groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by TestAmerica for Biological Oxygen Demand (BOD) by Standard methods 5210B. Data validation was performed using the USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994). Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please refer to Table 1-1 for a summary of qualified data.

Holding Time: All samples were analyzed within specified holding times.

Instrument Performance: Not applicable.

Calibration: Calibration of electrode not reported.

Blanks: Not applicable.

Surrogates: Not applicable.

Matrix Spikes: Not applicable.

Field duplicates: There were no field duplicates.

Internal Standards: Not applicable.

Compound Identification: Not applicable.

System Performance: Not applicable.

Sample Results: Results were qualified with a J as estimates since the cooler temperature was 17.8°C.

Table 1-1
Summary of Qualified BOD Data for ACS Quarterly Groundwater Monitoring (SDG99-0433 – June '99)

Sample	Compound	Concentration (mg/L)	Qualifiers	Reason	
MW18-09	Biological Oxygen Demand	< 2.0	J	Result is an estimate since the cooler temperature was 17.8 °C.	
MW38-09	Biological Oxygen Demand	3.4	J	Result is an estimate since the cooler temperature was 17.8 °C.	
MW40-09	Biological Oxygen Demand	<2.0	J	Result is an estimate since the cooler temperature was 17.8 °C.	
MW48-09	Biological Oxygen Demand	11.0	J	Result is an estimate since the cooler temperature was 17.8 °C.	
MW39-09	Biological Oxygen Demand	2.9	J	Result is an estimate since the cooler temperature was 17.8 °C.	

J Data are considered estimated.

## 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

127-18-4-----Tetrachloroethene

EPA SAMPLE NO.

10 U

M1S-09 Lab Name: COMPUCHEM Contract: OLM03-REVS SDG No.: 00005 o Code: COMPU Case No.: 34200 SAS No.: Matrix: (soil/water) WATER Lab Sample ID: 945283 5.0 (q/mL) mLLab File ID: CN045283A57 Sample wt/vol: Level: (low/med) LOW Date Received: 06/12/99 % Moisture: not dec. Date Analyzed: 06/24/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL CONCENTRATION UNITS: CAS NO. COMPOUND (uq/L or uq/Kq) uq/L 0 75-01-4------Vinyl Chloride 10 U 75-00-3------Chloroethane 10 U 75-35-4-----1,1-Dichloroethene 71-55-6----1,1,1-Trichloroethane 10 U 10 U 79-01-6-----Trichloroethene 10 U 79-00-5----1,1,2-Trichloroethane\_ 10 U 71-43-2-----Benzene 2 | J

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

þ	Name:	COMPUCHEM	Contract:	OLM03-REVS	M1S-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945283

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045283a57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

CONCENTRATION UNITS: Number TICs found: 1 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q .
1. 60-29-7 2. 3. 4.	ETHER	7.54	9	===== NJ 
6. 7. 8.				
10. 11. 12. 13.				
15. 16. 17. 18.			-	
20. 21. 22. 23.				
24. 25. 26.				
28. 29. 30.				

## 1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: COMP	UCHEM		Contract: I	LM04.0		M1S-09	
Lab Code: COMP	<del></del>			•		SDG No.: 0000	)5
Matrix (scil/w	ater): WATE	R		Lab S	ample	ID: 945283	
Level (low/med	): LOW_			Date :	Recei	ved: 06/12/99	)
% Solids:	0.	0					
Со	ncentration	Units (ug	/L or mg/kg dr	y weig	ht): 1	UG/L	
	CAS No.	Analyte	Concentration	C Q	М		
	7429-90-5	Aluminum		-	<u>N</u>	$\overline{R}$	
	7440-36-0	Antimony		-	N		
	7440-38-2	Arsenic_	2.0	<del> </del> <del> </del> <del> </del> <del> </del> <del> </del>	P		
	7440-39-3	Barium —			N	R	
	7440-41-7	Beryllium		-	N	R	
	7440-43-9	Cadmium			N	R	
	7440-70-2	Calcium		-	N		
	7440-47-3	Chromium		-	N.	R .	
	7440-48-4	Cobalt			N	R	
	7440-50-8	Copper			N	R	
	7439-89-6	Iron			N	R	
	7439-92-1	Lead	1.0	Ū	P		
	7439-95-4	Magnesium			N.	R	
	7439-96-5	Manganese			N	R	
	7439-97-6	Mercury			N	R	
	7440-02-0	Nickel			N	R	
	7440-09-7	Potassium			N	R	
	7782-49-2	Selenium_			N	R	
		Silver			N		
		Sodium			N		
	7440-28-0	Thallium_			N		
	7440-62-2	_		_  <u>-</u>	N		
	7440-66-6	Zinc			N		
		Cyanide			N	R	
Calan Dafana	GOL OPI EGG	GI nai	tr. Dofore CID	1_1	\_	_1	
Color Before:	COLORLESS	Clari	ty Before: CLE	AK_	T	exture:	
Color After:	COLORLESS	Clari	ty After: CLE	AR_	A	rtifacts:	
Comments:							
							- -

FORM I - IN

ILM04.0

M4S-09

Contract: OLM03-REVS Lab Name: COMPUCHEM

Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Lab Sample ID: 945258 Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045258B57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or u	ıg/Kg)	ug/L	Q
74 97 3	Chloromethane			100	U
	Bromomethane			100	_
75-01-4	Vinyl Chloride		—	100	Ü
75-01-4	Chloroethane			1600	0
75-09-2	Methylene Chlori	de	—	19	J
67-64-1	Acetone			26	
75-15-0	Carbon Disulfide			100	
	1,1-Dichloroethe		-	100	
75-34-3	1,1-Dichloroetha	ine		100	
67-66-3	Chloroform		-	100	
	1,2-Dichloroetha	ine	-1	100	
78-93-3			-	100	
71-55-6	1,1,1-Trichloroe	thane		100	U
56-23-5	Carbon Tetrachlo	oride	<del></del>	100	U
75-27-4	Bromodichloromet	hane	<b>-</b>	100	U .
	1,2-Dichloroprop			100	U
10061-01-5	cis-1,3-Dichloro	propene	_	100	Ŭ
79-01-6	Trichloroethene		_	100	U
124-48-1	Dibromochloromet	hane		100	U
79-00-5 <b></b>	1,1,2-Trichloroe	ethan <del>e</del>		100	U
71-43-2	Benzene			180	
10061-02-6	trans-1,3-Dichlo	ropropene	_	100	Ū
75-25-2	Bromoform		i	100	ַ
108-10-1	4-Methyl- <del>2-Penta</del>	none		100	U
591-78-6				100	Ū
	Tetrachloroether			100	U
	1,1,2,2-Tetrach	loroethane	_	100	U
108-88-3				100	U
	Chlorobenzene			100	U
	Ethylbenzene			100	
100-42-5	Styrene	-		100	
1330-20-7	Xylene (Total)			100	U
540-59-0	1,2-Dichloroethe	ene (total)		100	U
			l		

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M4S-09	

Lab	Name:	COMP	OCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 945258

Date Analyzed: 06/24/99

Sample wt/vol:

Lab File ID: cn045258b57

Level: (low/med)

5.0 (q/mL) mL

Date Received: 06/12/99

LOW

% Moisture: not dec.

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 10.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 109-99-9 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26.	COMPOUND NAME  FURAN, TETRAHYDRO-	RT	EST. CONC. ====================================	=====
27. 28. 29. 30.				

### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ab Name: COMPUCHEM Contract: OLM03-REVS

M4S-99

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945259

Sample wt/vol: 5.0 (g/mL) mLLab File ID: CN045259B57

Level: (low/med) Date Received: 06/12/99 LOW

% Moisture: not dec. Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Aliquot Volume: \_\_\_\_ (uL Soil Extract Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) ug/L

Q ·

74-87-3			
74-83-9	74-87-3Chloromethane	100	U
75-01-4		100	Ū
75-09-2			
75-09-2	75-00-3Chloroethane		
67-64-1			
75-15-0			
75-35-41,1-Dichloroethene       100 U         75-34-31,1-Dichloroethane       100 U         67-66-3			
75-34-31,1-Dichloroethane       100 U         67-66-3Chloroform       100 U         107-06-21,2-Dichloroethane       100 U         78-93-32-Butanone       100 U         71-55-61,1,1-Trichloroethane       100 U         56-23-5Carbon Tetrachloride       100 U         75-27-4Bromodichloromethane       100 U         78-87-51,2-Dichloropropane       100 U         10061-01-5tis-1,3-Dichloropropene       100 U         79-01-6Trichloroethene       100 U         79-00-51,1,2-Trichloroethane       100 U         71-43-2Benzene       100 U         10061-02-6trans-1,3-Dichloropropene       100 U         75-25-2Bromoform       100 U         108-10-14-Methyl-2-Pentanone       100 U         591-78-62-Hexanone       100 U         107-34-51,1,2,2-Tetrachloroethane       100 U         108-88-3Toluene       100 U         108-88-3Toluene       100 U         100-41-4Ethylbenzene       100 U         100-42-5Styrene       100 U         1330-20-7Xylene       (Total)		100	Ū
67-66-3	75-34-31.1-Dichloroethane		_
107-06-21,2-Dichloroethane       100 U         78-93-32-Butanone       100 U         71-55-61,1,1-Trichloroethane       100 U         56-23-5Carbon Tetrachloride       100 U         75-27-4Bromodichloromethane       100 U         78-87-51,2-Dichloropropane       100 U         10061-01-51,3-Dichloropropene       100 U         79-01-6Trichloroethene       100 U         124-48-1Dibromochloromethane       100 U         79-00-51,1,2-Trichloroethane       100 U         70-43-2Benzene       170         10061-02-6trans-1,3-Dichloropropene       100 U         75-25-2Bromoform       100 U         108-10-14-Methyl-2-Pentanone       100 U         109-78-62-Hexanone       100 U         127-18-4Toluene       100 U         108-88-3Toluene       100 U         108-88-3Chlorobenzene       100 U         100-41-4Ethylbenzene       100 U         100-42-5Styrene       100 U         1330-20-7Xylene       (Total)			-
78-93-32-Butanone       100 U         71-55-61,1,1-Trichloroethane       100 U         56-23-5Carbon Tetrachloride       100 U         75-27-4Bromodichloromethane       100 U         78-87-51,2-Dichloropropane       100 U         10061-01-5cis-1,3-Dichloropropene       100 U         79-01-6Trichloroethene       100 U         124-48-1Dibromochloromethane       100 U         79-00-51,1,2-Trichloroethane       100 U         71-43-2Benzene       170         10061-02-6trans-1,3-Dichloropropene       100 U         75-25-2Bromoform       100 U         108-10-14-Methyl-2-Pentanone       100 U         591-78-62-Hexanone       100 U         127-18-4Tetrachloroethene       100 U         79-34-51,1,2,2-Tetrachloroethane       100 U         108-88-3Toluene       100 U         100-41-4Ethylbenzene       100 U         100-42-5			
71-55-61,1,1-Trichloroethane       100 U         56-23-5Carbon Tetrachloride       100 U         75-27-4Bromodichloromethane       100 U         78-87-51,2-Dichloropropane       100 U         10061-01-5cis-1,3-Dichloropropene       100 U         79-01-6Trichloroethene       100 U         124-48-1Dibromochloromethane       100 U         79-00-51,1,2-Trichloroethane       100 U         71-43-2Benzene       170         10061-02-6trans-1,3-Dichloropropene       100 U         75-25-2Bromoform       100 U         108-10-14-Methyl-2-Pentanone       100 U         591-78-62-Hexanone       100 U         127-18-4Tetrachloroethene       100 U         108-88-3Toluene       100 U         108-90-7Chlorobenzene       100 U         100-41-4Ethylbenzene       100 U         100-42-5			i e
56-23-5Carbon Tetrachloride       100 U         75-27-4Bromodichloromethane       100 U         78-87-51,2-Dichloropropane       100 U         10061-01-5cis-1,3-Dichloropropene       100 U         79-01-6Trichloroethene       100 U         124-48-1Dibromochloromethane       100 U         79-00-51,1,2-Trichloroethane       100 U         71-43-2Benzene       170         10061-02-6trans-1,3-Dichloropropene       100 U         75-25-2Bromoform       100 U         108-10-14-Methyl-2-Pentanone       100 U         127-18-4Tetrachloroethene       100 U         108-88-3Toluene       100 U         108-88-3Chlorobenzene       100 U         100-41-4Ethylbenzene       100 U         100-42-5Xylene       100 U			_
75-27-4Bromodichloromethane       100 U         78-87-51,2-Dichloropropane       100 U         10061-01-5cis-1,3-Dichloropropene       100 U         79-01-6Trichloroethene       100 U         124-48-1Dibromochloromethane       100 U         79-00-51,1,2-Trichloroethane       100 U         71-43-2Benzene       170         10061-02-6trans-1,3-Dichloropropene       100 U         75-25-2Bromoform       100 U         108-10-14-Methyl-2-Pentanone       100 U         591-78-62-Hexanone       100 U         127-18-4Tetrachloroethene       100 U         79-34-51,1,2,2-Tetrachloroethane       100 U         108-88-3Toluene       100 U         109-90-7Chlorobenzene       100 U         100-41-4			
78-87-51, 2-Dichloropropane       100 U         10061-01-5cis-1, 3-Dichloropropene       100 U         79-01-6Trichloroethene       100 U         124-48-1Dibromochloromethane       100 U         79-00-51, 1, 2-Trichloroethane       100 U         71-43-2Benzene       170         10061-02-6trans-1, 3-Dichloropropene       100 U         75-25-2Bromoform       100 U         108-10-14-Methyl-2-Pentanone       100 U         591-78-62-Hexanone       100 U         127-18-4Tetrachloroethene       100 U         79-34-5Toluene       100 U         108-88-3Chlorobenzene       100 U         100-41-4Ethylbenzene       100 U         100-42-5		— - <del>-</del>	-
10061-01-5cis-1,3-Dichloropropene       100 U         79-01-6Trichloroethene       100 U         124-48-1Dibromochloromethane       100 U         79-00-51,1,2-Trichloroethane       100 U         71-43-2Benzene       170         10061-02-6trans-1,3-Dichloropropene       100 U         75-25-2Bromoform       100 U         108-10-14-Methyl-2-Pentanone       100 U         591-78-62-Hexanone       100 U         127-18-4Tetrachloroethene       100 U         79-34-5Toluene       100 U         108-88-3Toluene       100 U         100-41-4Ethylbenzene       100 U         100-42-5Styrene       100 U         1330-20-7Xylene       (Total)			l -
79-01-6Trichloroethene       100 U         124-48-1Dibromochloromethane       100 U         79-00-51,1,2-Trichloroethane       100 U         71-43-2Benzene       170         10061-02-6trans-1,3-Dichloropropene       100 U         75-25-2Bromoform       100 U         108-10-14-Methyl-2-Pentanone       100 U         591-78-62-Hexanone       100 U         127-18-4Tetrachloroethene       100 U         79-34-51,1,2,2-Tetrachloroethane       100 U         108-88-3Toluene       100 U         108-90-7Chlorobenzene       100 U         100-41-4Styrene       100 U         1330-20-7Xylene       100 U	10061-01-5cis-1 3-Dichloropropene		
124-48-1Dibromochloromethane       100 U         79-00-51,1,2-Trichloroethane       100 U         71-43-2Benzene       170         10061-02-6trans-1,3-Dichloropropene       100 U         75-25-2Bromoform       100 U         108-10-14-Methyl-2-Pentanone       100 U         591-78-62-Hexanone       100 U         127-18-4Tetrachloroethene       100 U         79-34-51,1,2,2-Tetrachloroethane       100 U         108-88-3Toluene       100 U         108-90-7Chlorobenzene       100 U         100-41-4Ethylbenzene       100 U         100-42-5Styrene       100 U         1330-20-7Xylene       100 U	79-01-6Trichloroethene		1
79-00-51,1,2-Trichloroethane       100 U         71-43-2Benzene       170         10061-02-6trans-1,3-Dichloropropene       100 U         75-25-2Bromoform       100 U         108-10-14-Methyl-2-Pentanone       100 U         591-78-62-Hexanone       100 U         127-18-4Tetrachloroethene       100 U         79-34-51,1,2,2-Tetrachloroethane       100 U         108-88-3Toluene       100 U         108-90-7Chlorobenzene       100 U         100-41-4Styrene       100 U         1330-20-7Xylene       100 U			_
71-43-2			
10061-02-6trans-1,3-Dichloropropene       100 U         75-25-2Bromoform       100 U         108-10-14-Methyl-2-Pentanone       100 U         591-78-62-Hexanone       100 U         127-18-4Tetrachloroethene       100 U         79-34-51,1,2,2-Tetrachloroethane       100 U         108-88-3Toluene       100 U         108-90-7Chlorobenzene       100 U         100-41-4Ethylbenzene       100 U         100-42-5Styrene       100 U         1330-20-7Xylene       (Total)			١٠
75-25-2Bromoform       100 U         108-10-14-Methyl-2-Pentanone       100 U         591-78-62-Hexanone       100 U         127-18-4Tetrachloroethene       100 U         79-34-51,1,2,2-Tetrachloroethane       100 U         108-88-3Toluene       100 U         108-90-7Chlorobenzene       100 U         100-41-4Ethylbenzene       100 U         100-42-5Styrene       100 U         1330-20-7Xylene       (Total)			TT
108-10-14-Methyl-2-Pentanone       100 U         591-78-62-Hexanone       100 U         127-18-4Tetrachloroethene       100 U         79-34-51,1,2,2-Tetrachloroethane       100 U         108-88-3Toluene       100 U         108-90-7Chlorobenzene       100 U         100-41-4Ethylbenzene       100 U         100-42-5Styrene       100 U         1330-20-7Xylene       (Total)	75 25 2 Promoform		
591-78-62-Hexanone       100 U         127-18-4Tetrachloroethene       100 U         79-34-51,1,2,2-Tetrachloroethane       100 U         108-88-3Toluene       100 U         108-90-7Chlorobenzene       100 U         100-41-4Ethylbenzene       100 U         100-42-5Styrene       100 U         1330-20-7Xylene       100 U	100 10 1 4 - Methyl - 2 - Pentanone		
127-18-4Tetrachloroethene       100 U         79-34-51,1,2,2-Tetrachloroethane       100 U         108-88-3Toluene       100 U         108-90-7Chlorobenzene       100 U         100-41-4Ethylbenzene       100 U         100-42-5Styrene       100 U         1330-20-7	For 70 6 2-Hovanone		
79-34-51,1,2,2-Tetrachloroethane       100 U         108-88-3Toluene       100 U         108-90-7Chlorobenzene       100 U         100-41-4Ethylbenzene       100 U         100-42-5Styrene       100 U         1330-20-7Xylene       (Total)			
108-88-3Toluene       100 U         108-90-7Chlorobenzene       100 U         100-41-4Ethylbenzene       100 U         100-42-5Styrene       100 U         1330-20-7Xylene       100 U			_
108-90-7Chlorobenzene       100 U         100-41-4Ethylbenzene       100 U         100-42-5Styrene       100 U         1330-20-7Xylene       Total	79-34-5		1
100-41-4Ethylbenzene 100 U 100-42-5Styrene 100 U 1330-20-7Xylene (Total) 100 U	100 00 7 Chlorobongono		)
100-42-5Styrene 100 U 1330-20-7Xylene (Total) 100 U	100 41 4 Ethylbongono		_
1330-20-7Xylene (Total) 100 U	100-41-4Ethythelizelle		
540-59-01,2-Dichloroethene (total) 100 U	100-42-5Styrene		1 -
540-59-01,2-DICHIOLOGCHENE (COCAL) 100 U	133U-ZU-/		1
	540-59-01,2-Dichioroethene (total)	100	١٠

### 1EVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

M4	S-99	

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 945259

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cn045259b57

Level: (low/med) LOW

Date Received: 06/12/99

% Moisture: not dec.

Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 10.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL

CONCENTRATION UNITS:

Number TICs found: 1

(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
	FURAN, TETRAHYDRO-	11.99	485	
4.				
6.				
7. 8. 9.				
11				
12.				
14. 15. 16.				
18				
19. 20. 21.				
23				
24 25				
26. 27. 28.				
29.				
		1	l	11

MW4S-09 Lab Name: COMPUCHEM Contract: OLM03-REVS SDG No.: 00003 b Code: COMPU Case No.: 34200 SAS No.: Matrix: (soil/water) WATER Lab Sample ID: 945258 Sample wt/vol: 900 (g/mL) ML Lab File ID: GH045258B70 Level: (low/med) LOW Date Received: 06/12/99 % Moisture: decanted: (Y/N) Date Extracted:06/16/99 Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: \_\_\_ CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 11 U 108-95-2-----Phenol 111-44-4-----bis(2-Chloroethyl)ether 72 11 |<del>U</del> 95-57-8-----2-Chlorophenol 541-73-1-----1,3-Dichlorobenzene 11 U 106-46-7-----1,4-Dichlorobenzene\_ 95-50-1-----1,2-Dichlorobenzene\_ 11 U 11 U 11 U 95-48-7----2-Methylphenol 108-60-1----2,2'-oxybis(1-Chloropropane) 11 U 106-44-5-----4-Methylphenol 11 U 621-64-7-----N-Nitroso-di-n-propylamine 11 U 67-72-1-----Hexachloroethane 11 U 98-95-3-----Nitrobenzene 11 U

78-59-1------Isophorone 11 U 88-75-5-----2-Nitrophenol 11 U 105-67-9-----2,4-Dimethylphenol 11 U 111-91-1-----bis(2-Chloroethoxy) methane 11 U 120-83-2----2,4-Dichlorophenol 11 U 120-82-1----1,2,4-Trichlorobenzene 11 U 91-20-3-----Naphthalene 11 U 106-47-8-----4-Chloroaniline 11 U 11 U 87-68-3-----Hexachlorobutadiene 11 U 59-50-7-----4-Chloro-3-methylphenol 91-57-6-----2-Methylnaphthalene 11 U 77-47-4-----Hexachlorocyclopentadiene 11 U 88-06-2----2,4,6-Trichlorophenol 11 U 95-95-4----2,4,5-Trichlorophenol 28 U 91-58-7----2-Chloronaphthalene 11 U 88-74-4----2-Nitroaniline 28 U 131-11-3-----Dimethylphthalate 11 U 208-96-8-----Acenaphthylene 11 U 606-20-2----2,6-Dinitrotoluene 11 U 99-09-2----3-Nitroaniline 28 U 83-32-9-----Acenaphthene 11 U

FORM I SV-1

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4S-09 Contract: OLM03-REVS Lab Name: COMPUCHEM

Case No.: 34200 SAS No.: SDG No.: 00003 Lab Code: COMPU

Matrix: (soil/water) WATER Lab Sample ID: 945258

Sample wt/vol: 900 (g/mL) ML Lab File ID: GH045258B70

Date Received: 06/12/99 Level: (low/med) LOW

% Moisture: \_\_\_\_ decanted: (Y/N) \_ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

pH:

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

(1) - Cannot be separated from Diphenylamine

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW4S-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945258

Sample wt/vol: 900 (g/mL) ML Lab File ID: GH045258B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.75	24	J
2.	UNKNOWN	5.21	28	
3.873-94-9	CYCLOHEXANONE, 3,3,5-TRIMETH		11	1
4.	UNKNOWN	5.88	10	J
5.	UNKNOWN	6.83	620	J
6.	UNKNOWN	6.86	92	J
7.	UNKNOWN	6.93	23	J
8.	UNKNOWN	7.03	13	J
9.	UNKNOWN	7.38	12	J
10.	UNKNOWN	7.42	14	J
11.	UNKNOWN	7.87	22	J
12.	UNKNOWN	8.18	66	
13.	UNKNOWN	8.30	18	
14.	UNKNOWN	8.38	34	
15.	UNKNOWN	8.70	10	
16.	UNKNOWN	8.87	12	
17.	UNKNOWN	9.01	24	
18. 499-06-9	BENZOIC ACID, 3,5-DIMETHYL-	9.29		NJ
19.	UNKNOWN	9.38	16	
20.	UNKNOWN	9.45	14	
21.	UNKNOWN	9.85	20	
22.	UNKNOWN	10.02	32	
23. 101-10-0	PROPANOIC ACID, 2-(3-CHLOROP	10.65	11	NJ
24.	UNKNOWN	11.78	11	
25.	UNKNOWN	12.08		
26. 76-73-3	SECOBARBITAL	12.25		NJ
27. 2564-83-2	1-PIPERIDINYLOXY, 2,2,6,6-TE		10	NJ
28. 7704-34-9	SULFUR	13.80		NJ
29. 0-00-0	2,4-DIMETHYL-1,3-BIS(P-CHLOR		18	NJ
30. 0-00-0	(3H,6H)THIENO[3,4-C]ISOXAZOL	15.49	10	NJ
 				l

FORM I SV-TIC

MW4S-09

	0 )
Lab Name: COMPUCHEM Contract: OLM03-REVS	 

SDG No.: 00003 Lab Code: COMPU Case No.: 34200 SAS No.:

Matrix: (soil/water) WATER Lab Sample ID: 945258

960.0 (g/mL) ML Lab File ID: Sample wt/vol: % Moisture: decanted: (Y/N) Date Received: 06/12/99

5 days Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99 19 days

Injection Volume: 2.0(uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) N pH: \_

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

319-84-6alpha-BHC 319-85-7beta-BHC 319-86-8delta-BHC 58-89-9gamma-BHC (Lindane) 76-44-8Heptachlor 309-00-2Aldrin 1024-57-3Heptachlor epoxide 959-98-8Dieldrin 72-55-94,4'-DDE 72-20-8Endrin 33213-65-9Endosulfan II 72-54-8Endosulfan Sulfate 50-29-3	0.0083 0.016 0.0012 0.011 0.052 0.052 0.052 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 1.00 1.00 1.00	2,5 2,0 3,0 3,0 3,0 3,0 3,0 3,0 3,0 3,0 3,0 3
11097-69-1Aroclor-1254	1.0	
11097-39-1-2-1-Aroclor-1234	1.0	1
11090 02 9-1- AIOCIOI 1200	1.0	Ĭ
1		

E D V	SAMPLE	MO
CPA	SHMILTE	NO

		INORGANIC A	ANALYSES DATA	SHEET	EPA SAMPLE NO.
Name Co.				I MO A	M4S-99
o Name: COM	IPUCHEM		Contract: Il	LM04.0	
o Code: COM	IPU_ Ca	se No.: 342	SAS No.	:	SDG No.: 00003
rix (soil/	water): WATE	R		Lab Samp	ole ID: 945259
rel (low/me	ed): LOW_			Date Rec	ceived: 06/12/99
Solids:	0.	0			
C	Concentration	Units (ug/	'L or mg/kg dry	y weight)	: UG/L
	CAS No.	Analyte	Concentration	C Q	М
		Aluminum_	53.7		P_
	7440-36-0	Antimony_	2.8		P_
	7440-38-2	Arsenic	4.0	B	P_
	7440-39-3	Barium	739		_  P
			rescience and the O.4-3.5		P_
	7440-43-9	Gadmium ===	sacromental activity and 25.76°	B'-	P
	7440-70-2	Calcium	417000		-   P -
	7440-47-3	Chromium	3.7	$ \overline{B} $	-   P -
	7440-48-4	Cobalt	7.2	В	-   P -
	7440-50-8	Copper	1.1		-   p
	7439-89-6	Iron	41300		-  <sub>P</sub> -
	7439-92-1	Lead	1.0	<del> </del>	-  <sub>P</sub> -
	7439-95-4	Magnesium	47400		-  <sub>P</sub> -
	7439-96-5	Manganese	364	I — I — — — — — — — — — — — — — — — — —	-     P -
	7439-97-6	Mercury	0.05		$-\left \frac{1}{CV}\right $
	7440-02-0	Nickel -	11.3		- P
	1	Potassium	19500		-  P-
		Selenium	3.1	<u>u</u>	-   -   -
	7440-22-4	Silver	0.38		-   P
	7440-22-4		126000	1 1 — —	-   P
	7440-23-5	Thallium		<sub>Ū</sub>	- I <sup>-</sup> - I
		Vanadium	$-\frac{4 \cdot 1}{4 \cdot 0}$	l 1————	-   P
	7440-62-2	vanadium   Zinc	4.0	B ** *	P_    P_
	7440-66-6	Cyanide	4.7	B" * *	P_CA
		.		1_1	_11
lor Before:	COLORLESS	Clarit	y Before: CLE	AR_	Texture:
lor After:	COLORLESS	Clarit	y After: CLE	AR_	Artifacts:

FORM I - IN

ILM04.0

M4S-99

Contract: OLM03-REVS Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945259

Lab File ID: GH045259B70 Sample wt/vol: 980 (g/mL) ML

Date Received: 06/12/99 Level: (low/med) LOW

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_ Date Extracted:06/16/99

Date Analyzed: 07/07/99 26days. Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH: \_\_\_

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

Caro no.	33.12 331.2	(49/1 01 49/	9,	
108-95-2	Phenol		10	ŢŢ
111-44-4	bis(2-Chloroethyl	Vether	95	
95-57-8	2-Chlorophenol		10	
541-73-1	·1,3-Dichlorobenze	ine -	10	
106-46-7	1,4-Dichlorobenze	ne	10	
95-50-1	1,2-Dichlorobenze	ne	10	
95-48-7	-2-Methylphenol		10	
108-60-1	2,2'-oxybis(1-Chl	oropropane)	10	
106-44-5	4-Methylphenol	.oropropano,	10	
621-64-7	-N-Nitroso-di-n-pr	copylamine	10	
67-72-1	Hexachloroethane		10	
98-95-3			10	
78-59-1			10	
88-75-5	2-Nitrophenol		10	
105-67-9	-2,4-Dimethylpheno	01	10	
111-91-1	-bis(2-Chloroethox	v)methane	10	U
120-83-2	-2,4-Dichloropheno	- i	10	U
	-1,2,4-Trichlorobe		10	U
91-20-3	-Naphthalene		10	U
106-47-8	-4-Chloroaniline		10	U
	-Hexachlorobutad <del>ie</del>		10	U
59-50-7	-4-Chloro-3-methyl	phenol	10	U
91-57-6	-2-Methylnaphthale	ene	10	
	-Hexachlorocyclope		10	U
	-2,4,6-Trichloroph		10	
95-95-4 <b></b>	-2,4,5-Trichloroph	nenol	26	
91-58-7	-2-Chloronaphthale	ene	10	
88-74-4	-2-Nitroaniline		26	1
131-11-3	-Dimethylphthalate	<u> </u>	10	
208-96-8	-Acenaphthylene	· · · · · · · · · · · · · · · · · · ·	10	1
606-20-2	-2,6-Dinitrotoluer	ne	10	
99-09-2			26	
83-32-9	-Acenaphthene		10	U
			İ	ŀ

FORM I SV-1

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M4S-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Tab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945259

Sample wt/vol: 980 (g/mL) ML Lab File ID: GH045259B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q

51-28-5	2,4-Dinitrophen	ol	26	U
100-02-7	4-Nitrophenol		26	
132-64-9	Dibenzofuran		10	
	2,4-Dinitrotolu	iene	10	
121-14-2	Diethylphthalat		10	
7005 72 2	4-Chlorophenyl-	phenylether	10	
86-73-7	Fluorene	phenylecher	10	
	4-Nitroaniline	· · · · · · · · · · · · · · · · · · ·	26	
		o the laborat	26	
534-52-1	4,6-Dinitro-2-m	echyiphenoi—	10	
	N-nitrosodiphen			
	4-Bromophenyl-p		10	
	Hexachlorobenze		10	
	Pentachloropher		26	
85-01-8	Phenanthrene		10	
120-12-7	Anthracene		10	
86-74-8	Carbazole		10	
84-74-2	Di-n-butylphtha	late	10	
	Fluoranthene_		10	
129-00-0	Pyrene		10	[U
85-68-7	Butylbenzylphth	nalate	10	U
91-94-1	3,3 <sup>7</sup> -Dichlorobe	enzidine	10	U
56-55-3	Benzo(a)anthrac	cene	10	U
218-01-9	Chrysene		10	
117-81-7	bis(2-Ethylhexy	(I)phthalate	10	
117-84-0	Di-n-octylphtha	alate	10	
205-99-2	Benzo(b) fluorar	thene	10	
207-08-9	Benzo(k)fluorar	thene	10	
50-32-8	Benzo(a)pyrene		10	
193_39_5	Indeno(1,2,3-co	Thyrene	10	
T 2 2 - 2 2 - 2	Dibenzo(a,h)ant	hracene	10	1
	Benzo(g,h,i)per		10	1
IJI-24-2	penzo(A'n'i)ber	- À TCIIC	10	10

FORM I SV-2

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Contract: OLM03-REVS Lab Name: COMPUCHEM

M4S-99

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 945259

Sample wt/vol:

Lab File ID: GH045259B70

980 (g/mL) ML

Level: (low/med) LOW

Concentrated Extract Volume:

% Moisture: decanted: (Y/N)

1000 (uL)

Date Extracted:06/16/99 Date Analyzed: 07/07/99

Date Received: 06/12/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: \_\_\_\_

Number TICs found: 30

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1.	UNKNOWN .	4.55	5	J
2.	UNKNOWN	4.63	. 5	J
3.	UNKNOWN	5.19	. 60	J
4.	UNKNOWN	5.34		
5.	UNKNOWN	5.66	12	
6.	UNKNOWN	5.95	9	J
7.	UNKNOWN	7.03	500	J
8.	UNKNOWN	7.50	9	J
9.	UNKNOWN	7.60	6	J
10.	UNKNOWN	7.77	7	J
11.	UNKNOWN	7.99	12	J
12.	UNKNOWN	8.11	14	
13.	UNKNOWN	8.20	40	J
14.	UNKNOWN	8.36	5	J
15. 85-44-9	PHTHALIC ANHYDRIDE	8.43		ŊJ
16.	UNKNOWN	8.48	30	
17. 610-72-0	BENZOIC ACID, 2,5-DIMETHYL-	8.92	46	
18.	UNKNOWN	9.09	55	
19.	UNKNOWN	9.48	15	
20.	UNKNOWN	9.56	22	
21. 528-90-5	BENZOIC ACID, 2,4,5-TRIMETHY		25	
22.	UNKNOWN	10.05	58	
23.	UNKNOWN	10.26	14	
24.	UNKNOWN	10.73	24	
25.	UNKNOWN	11.78	24	
26.	UNKNOWN	12.08	31	
27.	UNKNOWN	15.12	45	J
28.	UNKNOWN	17.32	25	J
29.	UNKNOWN	17.74	32	J
30.	UNKNOWN	17.84	23	J
l	1	l	l	I

M4S-99DL

Contract: OLM03-REVS Lab Name: COMPUCHEM

ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Lab Sample ID: 945259 Matrix: (soil/water) WATER

Sample wt/vol: 980 (g/mL) ML Lab File ID: GDJ45259A70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: \_\_\_ decanted: (Y/N)\_\_\_\_ Date Extracted:06/16/99

Date Analyzed: 07/07/99 20 days Concentrated Extract Volume: 1000(uL)

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: \_\_\_

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	(ug/ii Oi ug/kg	, 0 <b>0</b> /H	Q .
108-95-2 111-44-4 95-57-8 541-73-1 95-50-1 95-48-7 108-60-1 106-44-5 621-64-7 98-95-3 78-59-1 105-67-9 111-91-1 120-83-2 110-91-1 120-83-2 110-47-8 91-20-3 91-57-6 91-57-6 77-47-4 88-06-2	bis(2-Chloroethy2-Chlorophenol1,3-Dichlorobenz1,4-Dichlorobenz1,2-Dichlorobenz2,2'-oxybis(1-Chloroethy4-MethylphenolN-Nitroso-di-n-yHexachloroethaneIsophorone2,4-Dimethylpherbis(2-Chloroethy2,4-Dichloropher1,2,4-Trichlorobenz1,2,4-Trichlorobenz4-Chloroaniline4-Chloro-3-methy2-MethylnaphthalHexachlorocyclog	dene dene dene dene dene dene dene dene	20 91 20 20 20 20 20 20 20 20 20 20 20 20 20	ממממממממממממממממממממ
78-59-1 88-75-5 105-67-9 111-91-1 120-83-2 120-82-1 91-20-3 87-68-3 59-50-7 91-57-6 77-47-4 88-06-2 95-95-4 91-58-7 91-58-7 208-96-8	Isophorone2-Nitrophenol2,4-Dimethylpherbis(2-Chloroethoron)2,4-Dichloropher1,2,4-TrichloronNaphthalene4-Chloroaniline4-Chloro-3-methy2-Methylnaphthal1-2,4,6-Trichloron2,4,5-Trichloron2-Chloronaphthal2-NitroanilineDimethylphthalat	ene cene cene cene cene cene cene cene	20 20 20 20 20 20 20 20 20 20 20 20 20 2	טטטטטטטטטטטטטטטטטטטטטט
99-09-2	2,6-Dinitrotolue 3-Nitroaniline_ Acenaphthene_		20 51 20	U U

FORM I SV-1

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M4S-99DL Lab Name: COMPUCHEM Contract: OLM03-REVS

Case No.: 34200 SAS No.: SDG No.: 00003 Lab Code: COMPU

Lab Sample ID: 945259 Matrix: (soil/water) WATER

980. (q/mL) ML Lab File ID: GDJ45259A70 Sample wt/vol:

Level: (low/med) LOW Date Received: 06/12/99

decanted: (Y/N) Date Extracted:06/16/99 % Moisture:

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 51-28-5-----2,4-Dinitrophenol 51 U 100-02-7----4-Nitrophenol 51 U 132-64-9------Dibenzofuran 20 U 121-14-2----2,4-Dinitrotoluene 20 U 84-66-2-----Diethylphthalate 20 U 7005-72-3----4-Chlorophenyl-phenylether 20 U 86-73-7-----Fluorene 20 U 100-01-6----4-Nitroaniline 51 U 534-52-1-----4,6-Dinitro-2-methylphenol 51 U 86-30-6----N-nitrosodiphenylamine (1) 20 U 101-55-3-----4-Bromophenyl-phenylether 20 U. 118-74-1-----Hexachlorobenzene 20 U 87-86-5-----Pentachlorophenol 51 U 85-01-8-----Phenanthrene 20 U 120-12-7-----Anthracene 20 U 86-74-8-----Carbazole 20 U 84-74-2----Di-n-butylphthalate 20 U 206-44-0-----Fluoranthene 20 U 129-00-0-----Pyrene 20 U 85-68-7-----Butylbenzylphthalate 20 U 91-94-1----3,3'-Dichlorobenzidine 20 U 56-55-3-----Benzo(a) anthracene 20 U 218-01-9-----Chrysene 20 U 117-81-7-----bis(2-Ethylhexyl)phthalate 20 U 117-84-0-----Di-n-octylphthalate 20 U 205-99-2-----Benzo (b) fluoranthene 20 U 207-08-9-----Benzo(k) fluoranthene 20 U 50-32-8-----Benzo(a)pyrene 20 U 193-39-5----Indeno(1,2,3-cd)pyrene 20 U 53-70-3-----Dibenzo(a,h)anthracene 20 U 191-24-2-----Benzo(g,h,i)perylene 20 U (1) - Cannot be separated from Diphenylamine

FORM I SV-2

### 1F SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M4S-99DL

Lab Name: COMPUCHEM

Contract: OLM03-REVS

b Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 945259

Sample wt/vol:

Concentrated Extract Volume: 1000(uL)

Lab File ID: GDJ45259A70

980 (g/mL) ML

Date Received: 06/12/99

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

Date Extracted: 06/16/99 Date Analyzed: 07/07/99

Injection Volume: 2.0(uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 30

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	M4S-99	
)LM03-REVS	·	

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945259

Sample wt/vol: 1050 (g/mL) ML Lab File ID:

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Received: 06/12/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99 5 day\$

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99 19 devo

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

0.0090 JP 319-84-6-----alpha-BHC 319-85-7-----beta-BHC 0.012 JPB 319-86-8-----delta-BHC 0.0027 JP 58-89-9-----gamma-BHC (Lindane) 0.0084 JP 76-44-8-----Heptachlor 0.048 U 309-00-2-----Aldrin 0.048 U 1024-57-3-----Heptachlor epoxide 0.048 U 959-98-8-----Endosulfan I\_\_\_\_\_ 0.048 U 60-57-1------Dieldrin 0.095 U 72-55-9-----4,4'-DDE 0.095 U 72-20-8-----Endrin 0.095 U 33213-65-9----Endosulfan II 0.095 U 72-54-8-----4,4'-DDD 0.0084 JP 1031-07-8-----Endosulfan sulfate 0.095 U 50-29-3-----4,4'-DDT 0.095 U 72-43-5-----Methoxychlor 0.48 U 53494-70-5----Endrin ketone 0.095 U 7421-93-4-----Endrin aldehyde 0.095 U 5103-71-9----alpha-Chlordane 0.0040 JP 5103-74-2----gamma-Chlordane 0.048 U 8001-35-2-----Toxaphene 4.8 U 12674-11-2----Aroclor-1016 0.95 U 11104-28-2----Aroclor-1221 1.9 U 11141-16-5-----Aroclor-1232 0.95 U 53469-21-9----Aroclor-1242 0.95 U 12672-29-6----Aroclor-1248 0.95 U 0.95 U 11097-69-1----Aroclor-1254

11096-82-5----Aroclor-1260

0.95 U

## 1 INORGANIC ANALYSES DATA SHEET

00003
258
12/99
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FORM I - IN .

## 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: COMPUCHEM	Contract: OLM03-REVS	MW06-09
Lab Code: COMPU Case No.: 34200	SAS No.:	OG No.: 00003
Matrix: (soil/water) WATER	Lab Sample 1	ID: 945687
Sample wt/vol: $5.0 (g/mL) m$	Lab File ID	: CN045687A57
Level: (low/med) LOW	Date Receive	ed: 06/16/99
% Moisture: not dec.	Date Analyze	ed: 06/29/99
GC Column: EQUITY624 ID: 0.53 (mm)	Dilution Fac	ctor: 1.0
Soil Extract Volume: (uL)	Soil Aliquot	Volume:(uL
	CONCENTRATION UNIT	rs:
CAS NO. COMPOUND	(ug/L or ug/Kg) ug	
74-87-3	de	10 U 10 U 10 U 78 140 80 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10
10061-02-6trans-1,3-Di 75-25-2Bromoform 108-10-14-Methyl-2-F 591-78-6Tetrachloroe 127-18-4Tetrachloroe 79-34-51,1,2,2-Tetr 108-88-3Toluene 108-90-7Chlorobenzen 100-41-4Ethylbenzene 100-42-5	Pentanoneetheneeachloroethane	10 U 10 U 10 U 10 U 10 U 10 U 1 J 10 U 10 U 10 U

FORM I VOA

OLM03.0

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW06-09
Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945687

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045687a57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. \_\_\_\_ Date Analyzed: 06/29/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

CONCENTRATION UNITS: Number TICs found: 4 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7 2. 3. 109-99-9 4. 873-94-9 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.	ETHER UNKNOWN FURAN, TETRAHYDRO- CYCLOHEXANONE, 3,3,5-TRIMETH	7.56 10.73 11.99	======================================	===== NJ J NJ
22. 23. 24. 25. 26. 27. 28. 29.				

## 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW06-99 Contract: OLM03-REVS Lab Name: COMPUCHEM Case No.: 34200 Lab Code: COMPU SAS No.: SDG No.: 00003 Matrix: (soil/water) WATER Lab Sample ID: 945686 5.0 (g/mL) mL Sample wt/vol: Lab File ID: CR045686A57 Level: (low/med) LOW Date Received: 06/16/99 % Moisture: not dec. Date Analyzed: 06/29/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 2.5 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CAS NO COMPOUND (ug/L or ug/Kg) ug/L O

CAS NO. COMPOUND	(ug/L or ug/Kg) ug/L Q
74-87-3	28

FORM I VOA

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: COMPUCHEM Contract: OLM03-REVS MW06-99

Case No.: 34200 SAS No.:

SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 945686

Sample wt/vol:

Lab Code: COMPU

5.0 (g/mL) mL

Lab File ID: cr045686a57

EST. CONC. O

Level: (low/med) LOW

Date Received: 06/16/99

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/29/99

GC Column: EQUITY624 ID: 0.53 (mm)

COMPOUND NAME

Dilution Factor: 2.5

Soil Aliquot Volume: \_\_\_\_\_(uL

Soil Extract Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

RT

(ug/L or ug/Kg) ug/L

Number TICs found: 3

CAS NUMBER

28. 29. 30.

CAS NONDER	COMECOND NAME	IX I	ESI. CONC.	\(  \)
=======================================	=======================================	======	=========	====
1. 60-29-7	ETHER	7.55	22	NJ
2. 109-99-9	FURAN, TETRAHYDRO-	11.97	13	LNJ
3. 873-94-9	CYCLOHEXANONE, 3,3,5-TRIMETH	21.70		NJ
	CICEOHEMANONE, 3,3,3 IRINDIN	21.70	20	luò I
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## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: COMPUCHEM Contract: OLM03-REVS MW06-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945687

Sample wt/vol: 960 (g/mL) ML Lab File ID: GH045687A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Extracted: 06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99 V

Injection Volume: 2.0(uL) Dilution Factor: 1.0

injection volume. 2.0 (db) Dilation ractor, 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

208-96-8-----Acenaphthylene

83-32-9-----Acenaphthene

606-20-2-----2,6-Dinitrotoluene

99-09-2----3-Nitroaniline

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

10 U 108-95-2----Phenol 111-44-4-----bis(2-Chloroethyl)ether 13 95-57-8-----2-Chlorophenol\_ 10 U 541-73-1----1,3-Dichlorobenzene 10 U 106-46-7-----1,4-Dichlorobenzene 95-50-1-----1,2-Dichlorobenzene 10 U U 10 95-48-7----2-Methylphenol 10 U 108-60-1-----2,2'-oxybis(1-Chloropropane) 10 U 106-44-5-----4-Methylphenol 10 U 621-64-7----N-Nitroso-di-n-propylamine 10 U 67-72-1-----Hexachloroethane 10 U 98-95-3-----Nitrobenzene 10 U 3 J J 78-59-1-----Isophorone 88-75-5-----2-Nitrophenol 10 U 105-67-9-----2,4-Dimethylphenol 111-91-1-----bis(2-Chloroethoxy)methane\_ 10 U 10 U 120-83-2-----2,4-Dichlorophenol\_ 120-82-1-----1,2,4-Trichlorobenzene\_ 10 U 10 U 10 U 91-20-3-----Naphthalene 106-47-8-----4-Chloroaniline 10 U 87-68-3-----Hexachlorobutadiene 10 U 59-50-7----4-Chloro-3-methylphenol 10 U 91-57-6----2-Methylnaphthalene 10 U 77-47-4-----Hexachlorocyclopentadiene 10 U 88-06-2----2,4,6-Trichlorophenol\_ 10 U 95-95-4----2,4,5-Trichlorophenol 26 U 91-58-7----2-Chloronaphthalene 10 U 88-74-4----2-Nitroaniline 26 U 131-11-3-----Dimethylphthalate 10 U

FORM I SV-1

10 U

10 U

26 U

: 10 U

MW06-09 Contract: OLM03-REVS b Name: COMPUCHEM

SDG No.: 00003 Dab Code: COMPU Case No.: 34200 SAS No.:

Lab Sample ID: 945687 Matrix: (soil/water) WATER

Sample wt/vol: 960 (g/mL) ML Lab File ID: GH045687A66

Level: (low/med) LOW Date Received: 06/16/99

Date Extracted:06/17/99 % Moisture: decanted: (Y/N)

Concentrated Extract Volume: Date Analyzed: 06/22/99 1000 (uL)

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:

(i) - Cannot be separated from Diphenylamine

51-28-52,4-Dinitrophenol       26 U         100-02-74-Nitrophenol       26 U         132-64-9Dibenzofuran       10 U         121-14-22,4-Dinitrotoluene       10 U         84-66-2Diethylphthalate       10 U         7005-72-34-Chlorophenyl-phenylether       10 U         86-73-7Fluorene       10 U         100-01-64-Nitroaniline       26 U         534-52-14,6-Dinitro-2-methylphenol       26 U	CAS NO.	COMPOUND	(ug/L or ug/Kg		Q
86-30-6N-nitrosodiphenylamine       10         101-55-34-Bromophenyl-phenylether       10         118-74-1Hexachlorobenzene       10         87-86-5Pentachlorophenol       26         85-01-8Phenanthrene       10         120-12-7Anthracene       10         86-74-8Carbazole       10         84-74-2Di-n-butylphthalate       10         129-00-0	100-02-7 132-64-9 121-14-2 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 87-86-5 85-01-8 120-12-7 84-74-2 206-44-0 129-00-0 85-68-7 91-94-1 56-55-3 218-01-9 117-81-7 205-99-2 207-08-9 50-32-8 193-39-5 53-70-3	4-NitrophenolDibenzofuran2,4-DinitrotolueDiethylphthalate4-Chlorophenyl-pFluorene4-Nitroaniline4,6-Dinitro-2-meN-nitrosodipheny4-Bromophenyl-phHexachlorobenzerPentachlorophenoPhenanthreneAnthraceneCarbazoleDi-n-butylphthalFluoranthenePyreneButylbenzylphthal3,3'-DichloroberBenzo(a) anthraceChrysenebis(2-EthylhexylDi-n-octylphthalBenzo(b) fluorantBenzo(a) pyreneIndeno(1,2,3-cd)Dibenzo(a,h) anth	ene chenylether chylphenol vlamine (1) nenylether che chene	26 UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	

FORM I SV-2

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW06-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 945687

Sample wt/vol:

960 (g/mL) ML

Lab File ID: GH045687A66

Level: (low/med)

LOW

Number TICs found: 27

Date Received: 06/16/99

% Moisture: decanted: (Y/N)\_\_\_\_

Date Extracted:06/17/99

Concentrated Extract Volume:

Date Analyzed: 06/22/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

\_\_\_

1000 (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 76-73-3 22. 50-06-6 23. 24. 25. 26. 27. 28. 29. 30.	UNKNOWN UNKNOWN	4.97 5.17 5.57 5.99 6.36 7.02 7.69 7.81 8.06 8.74 9.20 9.83 10.97 11.16 11.27 11.67 11.93 11.99 12.27 12.44 13.77 13.83 15.82 16.30 16.42	20 22 3 3 4 3 12 4 2 420 2 3 3 2 8 10 3 12 29 24 6 3 8 3	

FORM I SV-TIC

OLM03.0

MW06-99

Contract: OLM03-REVS Lab Name: COMPUCHEM

ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Lab Sample ID: 945686 Matrix: (soil/water) WATER

Sample wt/vol: Lab File ID: GH045686A66 980 (g/mL) ML

Date Received: 06/16/99 Level: (low/med) LOW

% Moisture: decanted: (Y/N) Date Extracted:06/17/99

Date Analyzed: 06/22/99 Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND Q

108-95-2Phenol	10	U
111-44-4bis(2-Chloroethyl)ether	14	
95-57-82-Chlorophenol	10	TT -
541-73-11,3-Dichlorobenzene	10	
106-46-71,4-Dichlorobenzene	10	
95-50-11,2-Dichlorobenzene	10	_
95-48-72-Methylphenol	10	-
	10	_
108-60-12,2'-oxybis(1-Chloropropane)		_
106-44-54-Methylphenol	10	
621-64-7N-Nitroso-di-n-propylamine	10	-
67-72-1Hexachloroethane	10	_
98-95-3Nitrobenzene	10	
78-59-1Isophorone	10	
88-75-52-Nitrophenol	10	
105-67-92,4-Dimethylphenol	10	
111-91-1bis(2-Chloroethoxy)methane	10	
120-83-22,4-Dichlorophenol	10	U
120-82-11,2,4-Trichlorobenzene	10	U
91-20-3Naphthalene	10	ប
106-47-84-Chloroaniline	10	ש
87-68-3Hexachlorobutadiene	10	
59-50-74-Chloro-3-methylphenol	10	
91-57-62-Methylnaphthalene	10	
77-47-4Hexachlorocyclopentadiene	10	
88-06-22,4,6-Trichlorophenol	10	
95-95-42,4,5-Trichlorophenol	26	
91-58-72-Chloronaphthalene	10	
88-74-42-Nitroaniline	26	1 -
131-11-3Dimethylphthalate	10	
208-96-8Acenaphthylene	10	Į.
606-20-22,6-Dinitrotoluene	10	-
99-09-23-Nitroaniline	26	1
83-32-9Acenaphthene	10	U
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FORM I SV-1

				MW06-99
Lab Name:	COMPUCHEM	Contract:	OLM03-REVS	

SDG No.: 00003 Lab Code: COMPU Case No.: 34200 SAS No.:

Lab Sample ID: 945686 Matrix: (soil/water) WATER

980 (q/mL) ML Lab File ID: GH045686A66 Sample wt/vol:

Date Received: 06/16/99 Level: (low/med) LOW

% Moisture: decanted: (Y/N) Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

pH:

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) UG/L Q CAS NO.

51-28-5-----2,4-Dinitrophenol 26 U 100-02-7-----4-Nitrophenol 26 U 132-64-9------Dibenzofuran 10 U 121-14-2----2,4-Dinitrotoluene 10 U 84-66-2-----Diethylphthalate 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 10 U 100-01-6-----4-Nitroaniline 26 U 534-52-1-----4,6-Dinitro-2-methylphenol 26 U 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3-----4-Bromophenyl-phenylether 10 U 118-74-1------Hexachlorobenzene 10 U 87-86-5-----Pentachlorophenol 26 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8-----Carbazole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 91-94-1-----3,3'-Dichlorobenzidine 10 U 10 U 56-55-3-----Benzo(a)anthracene\_ 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 5 JB 117-84-0-----Di-n-octylphthalate 10 U 205-99-2------Benzo(b) fluoranthene 10 U 207-08-9-----Benzo(k)fluoranthene 10 U 50-32-8-----Benzo(a)pyrene 10 U 193-39-5-----Indeno(1,2,3-cd)pyrene 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 U 191-24-2----Benzo(g,h,i)perylene -10 U (1) - Cannot be separated from Diphenylamine

FORM I SV-2

EPA SAMPLE NO.

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW06-99

Lab Name: COMPUCHEM

Contract: OLM03-REVS

ab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 945686

Sample wt/vol:

980

LOW.

Lab File ID: GH045686A66

Level: (low/med)

(g/mL) ML

Date Received: 06/16/99

% Moisture: \_\_\_\_\_

decanted: (Y/N)

Date Extracted:06/17/99

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 06/22/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 28

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

1	<del></del>		<del></del>	
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
======================================			20	J
1	UNKNOWN	5.16		J
2.	UNKNOWN	5.59	30	
3.	UNKNOWN	6.08	4	J
4.	UNKNOWN	6.37	5	J
5.	SUBSTITUTED PHENOL	7.02	4	J.
6.	UNKNOWN	7.83	7	J
7.	UNKNOWN	8.06	4	J
8.	UNKNOWN	8.79	6	J
9.	UNKNOWN	9.07	960	J
10.	UNKNOWN	9.21	7	J
11.	UNKNOWN	9.44	3	J
12.	UNKNOWN	9.65	38	J
13.	UNKNOWN	9.85	7	J
14.	UNKNOWN	9.95	4	J
15.	UNKNOWN	10.72	3	J
16.	UNKNOWN	11.18	11	J
17.	UNKNOWN	11.27	4	J
18.	UNKNOWN	11.44	. 2	J
19.	UNKNOWN	11.69	9	J
20.	UNKNOWN	11.93	6	J
21.	UNKNOWN	12.26	6	J
22.	UNKNOWN	12.46	43	J
23.	UNKNOWN	13.21	3	J
24.	UNKNOWN	13.77	23	J
25.	UNKNOWN	14.51	2	IJ
26.	UNKNOWN	15.21	2 3	J J
27.	UNKNOWN	15.82	8	Ĵ
28.	UNKNOWN	16.30	. 3	J
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## 1D PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

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Lab	Name:	СОМРИСНЕМ	·			Contract:	OLM03-REVS	1	MW06-09
Lab	Code:	COMPU	Case	No.:	34200	SAS No.:	SDG	No.:	00003

Matrix: (soil/water) WATER Lab Sample ID: 945687

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99 \day

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99 | 8 days

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

0.0095|JP 319-84-6----alpha-BHC 319-85-7-----beta-BHC 0.36 P 319-86-8-----delta-BHC 0.0040 JP 58-89-9-----qamma-BHC (Lindane) 0.0066 JP 76-44-8------Heptachlor 0.0043 JP 309-00-2-----Aldrin 0.050 U 1024-57-3-----Heptachlor epoxide 0.050 U 959-98-8-----Endosulfan I 0.050 U 60-57-1-----Dieldrin 0.0069 JP 72-55-9-----4,4'-DDE 0.0012 JP 72-20-8-----Endrin 0.021 JP 33213-65-9----Endosulfan II 0.10 U 72-54-8-----4,4'-DDD 0.10 U 1031-07-8----Endosulfan sulfate 0.10 U 50-29-3-----4,4'-DDT 0.0081 J 72-43-5----Methoxychlor 0.50 U 53494-70-5----Endrin ketone 0.10 U 7421-93-4----Endrin aldehyde 0.10 U 5103-71-9----alpha-Chlordane 0.0068 JP 5103-74-2----gamma-Chlordane 0.050 U 8001-35-2-----Toxaphene 5.0 U 12674-11-2----Aroclor-1016 1.0 U 11104-28-2----Aroclor-1221 2.0 U 11141-16-5----Aroclor-1232 1.0 U 53469-21-9----Aroclor-1242 1.0 U 12672-29-6-----Aroclor-1248 1.0 U 11097-69-1----Aroclor-1254 1.0 U

11096-82-5-----Aroclor-1260

1.0 U

MW06-99 Contract: OLM03-REVS b Name: COMPUCHEM Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003 Matrix: (soil/water) WATER Lab Sample ID: 945686 940.0 (g/mL) ML Sample wt/vol: Lab File ID: Date Received: 06/16/99 % Moisture: decanted: (Y/N)\_\_\_ Date Extracted:06/17/99 Extraction: (SepF/Cont/Sonc) SEPF Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: CAS NO. (ug/L or ug/Kg) UG/L COMPOUND 319-84-6----alpha-BHC 0.012|J 319-85-7-----beta-BHC 0.064 P  $319-86-8-----delta-BH\overline{C}$ 0.0012 JP 58-89-9-----gamma-BHC (Lindane) 0.014 JP 76-44-8------Heptachlor 0.015 JP 309-00-2-----Aldrin 0.0072 JP 1024-57-3-----Heptachlor epoxide 0.053 U 959-98-8-----Endosulfan I 0.053 U 60-57-1-----Dieldrin 0.11 U 72-55-9-----4,4'-DDE 0.11 U 72-20-8-----Endrin 0.11 U 33213-65-9----Endosulfan II 0.11 U 72-54-8-----4,4'-DDD 0.11 U 1031-07-8-----Endosulfan sulfate 0.11 U 50-29-3-----4.4'-DDT 0.11 U 72-43-5-----Methoxychlor 0.53 U 0.11 U 53494-70-5-----Endrin ketone

7421-93-4-----Endrin aldehyde

12674-11-2----Aroclor-1016

11104-28-2----Aroclor-1221

11141-16-5-----Aroclor-1232

53469-21-9-----Aroclor-1242

12672-29-6-----Aroclor-1248

11097-69-1-----Aroclor-1254

11096-82-5----Aroclor-1260

5103-71-9-----alpha-Chlordane

5103-74-2----gamma-Chlordane 8001-35-2----Toxaphene 0.11 U

0.0085 J

0.0019 JP 5.3 U

1.1 U

2.1 U

1.1 U

1.1 U

1.1 U

1.1 U

1.1 U

### U.S. EPA - CLP

#### 1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ab Name: COMP	UCHEM_		Contract: I	LM04.0	MW06-U9
ab Code: COMP	U_ Ca	se No.: 342	200_ SAS No.	:	SDG No.: 00003
atrix (soil/w	ater): WATE	R		Lab Samp	le ID: 945687
evel (low/med	): LOW_	-		Date Rece	eived: 06/16/99
Solids:	0.	0			
Co:	ncentration	Units (ug,	/L or mg/kg dry	y weight)	: UG/L
	CAS No.	Analyte	Concentration	C Q	M
	7429-90-5	Aluminum_	41.3		$\left  \overline{P} \right $
	7440-36-0	Antimony_	3.2	B	P
	7440-38-2	Arsenic	17.9		P P
	7440-39-3	Barium	269	Dia.	P
	7440-41-7		257 - 157 -		
	7440-43-9		2.600	B.	P :
	7440-70-2	Calcium_	260000	=	P P
	7440-47-3	Chromium_	8.1		P
	7440-48-4	Cobalt	2.4		P-
	7440-50-8	Copper	7780		P_ P_
	7439-89-6	Iron	1.0	<sub>++</sub>	P P
	7439-92-1	Lead_			P
·	7439-95-4	Magnesium		-	P
	7439-96-5 7439-97-6	Manganese Mercury	1050	<sub>U</sub>	CV
	7440-02-0	Nickel	20.2		P
	7440-02-0	Potassium	16500	$\left  \frac{E}{E} \right $	P
	7782-49-2	Sclenium	3.1	-	P P
	7440-22-4	Silver	0.30	l I—— ———	P P
	7440-23-5	Sodium	233000		P
	7440-23-3	Thallium	4.1		
	7440-62-2	770000000000	0 (0	B -	P P
	7440-66-6	Zinc	2:3		P
	7440 00 0	Cyanide	12.8		CĀ
		Cyanitae		-	
	I		1	l l	I I
lor Before:	COLORLESS	Clari	ty Before: CLE	AR_	Texture:
lor After:	COLORLESS	Clari	ty After: CLE	AR_	Artifacts:
mments:					

#### 1 INORGANIC ANALYSES DATA SHEET

EDA	SAMPLE	MO
CPA	SHALL	NO.

b Name: COMP	UCHEM		Contract: I	LM04.0	MW06-99
b Code: COMP	 U_ Ca	se No.: 34			SDG No.: 0000
trix (soil/w	ater): WATE	R		Lab Samp	ole ID: 945686
vel (low/med	) . I.OM			Date Rec	ceived: 06/16/99
ver (row) med	7. HOW_	·	•	Date Rec	.e.ved: 00/10/99
Solids:	0.	0			
	<del></del>				
Co	ncentration	Units (ug,	/L or mg/kg dry	y weight)	: UG/L
	ı ————	1	<u> </u>		<del></del> ,
	CAS No.	Analyte	Concentration	C Q	М
				_	-
	7429-90-5	Aluminum_	85.3		P
	7440-36-0	Antimony_	2.5		-   P   P
	7440-38-2	Arsenic	19.2	i — I ———	-  <u>P</u> _
	7440-39-3	Barium	264	l. <u>≠</u>	P_
	7440-41-7	Beryllium	0.38	B	P_
	7440-43-9		2:52	-B** <u></u>	-   P_
	7440-70-2	Calcium	254000	_	_   P_
	7440-47-3	Chromium_	13.1		P_
	7440-48-4	Cobalt	2.0		[ P _
	7440-50-8	Copper	3.8		_   P_
	7439-89-6	Iron	7700	<u> </u>	P_
	7439-92-1	Lead	1.0		_   P_
	7439-95-4	Magnesium	44800		_  P_
	7439-96-5	Manganese	1010	I — I — — — —	_  P
	7439-97-6	Mercury	0.05		
	7440-02-0	Nickel	21.6		_  P_
	7440-09-7	Potassium	16400	E	-   P_
•	7782-49-2	Selenium_	3.1		P
	7440-22-4	Silver	0.40	B	-   p -
	7440-23-5	Sodium	226000		-   P -
	7440-28-0	Thallium	4.1	U	- P
	7440-62-2	Vanadium	0.60	U	P
	7440-66-6	Zinc	1000 AND 1000 AND 100	B: ****	-   P -
		Cyanide	5.7	B	CA
				_	<u> </u>
lor Before:	COLORLESS	Clari	ty Before: CLE	ΔΡ	Texture:
	COLUMNIA	CIALI	cy Deroie, end.		
lor After:	COLORLESS	Clari	ty After: CLE	AR_	Artifacts:
mments:					
		·			

FORM I - IN

ILM04.0

#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

79-01-6-----Trichloroethene

127-18-4----Tetrachloroethene

71-43-2----Benzene

79-00-5----1,1,2-Trichloroethane

EPA SAMPLE NO.

10 U

10 U

10 U

10 U

MW11-09 Lab Name: CCMPUCHEM Contract: OLM03-REVS Case No.: 34200 SAS No.: Lab Code: COMPU SDG No.: 00005 Matrix: (soil/water) WATER Lab Sample ID: 945496 Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045496A57 Level: (low/med) LOW Date Received: 06/15/99 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: \_\_\_\_(uL Soil Extract Volume: \_\_\_\_(uL) CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L CAS NO. COMPOUND Q 10 U 75-00-3-----Chloroethane 10 U 75-35-4-----1,1-Dichloroethene 10 U 71-55-6----1,1,1-Trichloroethane 10 U

FORM I VOA

#### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

þ	Name:	COMPUCHEM				Contract:	OLM03-REVS		MW11-09	
Lab	Code:	COMPU	Case	No.:	34200	SAS No.:	SDG	No.:	00005	

Matrix: (soil/water) WATER Lab Sample ID: 945496

Sample wt/vol: 5.0 (q/mL) mLLab File ID: cn045496a57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. Date Analyzed: 06/27/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Number TICs found: 0

Soil Aliquot Volume: \_\_\_\_(uL Soil Extract Volume: (uL)

> CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
i		=======	==========	====
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#### 1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: COM	PUCHEM		Contract: II	LM(	04.0	MW11-09
Lab Code: COM	PU_ Ca	se No.: 34	200_ SAS No.	: _		SDG No.: 00005_
Matrix (soil/	water): WATE	R		Lá	ab Sampl	e ID: 945496
Level (low/med	d): LOW_			Da	ate Rece	ived: 06/15/99
Solids:	0.	0				
C	oncentration	Units (ug	/L or mg/kg dry	y v	weight):	UG/L
	CAS No.	Analyte	Concentration	С	Q ·	м
	7429-90-5	Aluminum				NR
	7440-36-0	Antimony		_		NR
	7440-38-2	Arsenic	4.2	$\overline{B}$		P_
	7440-39-3	Barium		_		NR
•	7440-41-7	Beryllium		_		NR
	7440-43-9	Cadmium		_		NR
	7440-70-2	Calcium		_		NR .
	7440-47-3	Chromium_		_		NR
	7440-48-4	Cobalt	<del> </del>	l —		NR
	7440-50-8	Copper		-		NR
	7439-89-6 7439-92-1	Lead	1.7	B		NR   P
	7439-92-1	Magnesium		Р		NR
	7439-95-4	Manganese		-	I ———— I	NR ·
:	7439-97-6	Mercury		:		NR NR
	7440-02-0	Nickel -		-		NR
	7440-09-7	Potassium				NR
	7782-49-2	Selenium		-		NR
	7440-22-4	Silver		-		NR
	7440-23-5	Sodium		-		NR
	7440-28-0	Thallium		-		NR
	7440-62-2	Vanadium_		_		NR
	7440-66-6	Zinc				NR
		Cyanide		_		NR
olor Before:	COLORLESS	Clari	ty Before: CLE	AR_	_	Texture:
olor After:	COLORLESS	Clari	ty After: CLE	AR_	<del></del>	Artifacts:
omments:						
					· · · - ·	

FORM I - IN

ILM04.0

## VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW12-09

b Name: COMPUCHEM Contract: OLM03-REVS SDG No.: 00002 Lab Code: COMPU Case No.: 34200 SAS No.: Lab Sample ID: 944731 Matrix: (soil/water) WATER 5.0 (g/mL) mL Lab File ID: CR044731B57 Sample wt/vol: Level: (low/med) LOW Date Received: 06/11/99 Date Analyzed: 06/23/99 % Moisture: not dec. Dilution Factor: 1.0 ID: 0.53 (mm) GC Column: EQUITY624 Soil Aliquot Volume: (uL Soil Extract Volume: CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L CAS NO. COMPOUND Q

## U.S. EPA - CLP

#### 1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: COMP	UCHEM	,	Contract: II	LM04.0	ACSGWMW12-09
Lab Code: COMP	Ca	se No.: 342		<del></del>	SDG No.: 00002_
Matrix (soil/w	ater): WATE	R		Lab Samp	ole ID: 944731
Level (low/med	.): LOW_	_		Date Rec	eived: 06/11/99
% Solids:	0.	0			
Co	ncentratión	Units (ug,	/L or mg/kg dry	y weight)	: UG/L
	CAS No.	Analyte	Concentration	C Q	M
	7420 00 5			_ -	
	7429-90-5 7440-36-0	Aluminum_ Antimony_		-	NR NR
	7440-38-2	Arsenic	1.4	<del> </del>   <del>   </del>	P
	7440-39-3	Barium			NR
	7440-41-7	Beryllium		] _	NR
	7440-43-9 7440-70-2	CadmiumCalcium		-	NR
	7440-70-2	Chromium_		- -	NR NR
	7440-48-4	Cobalt		-	NR
	7440-50-8	Copper		-	NR
	7439-89-6	Iron —		-	NR
	7439-92-1	Lead	1.6	B	P_
	7439-95-4	Magnesium			NR
	7439-96-5	Manganese			NR
	7439-97-6	Mercury	· · · · · · · · · · · · · · · · · · ·	İ _	NR
	7440-02-0	Nickel		-	NR
	7440-09-7	Potassium Selenium		-	NR NR
	7440-22-4	Silver	<u> </u>	-	NR     NR
	7440-23-5	Sodium		- -	NR
	7440-28-0	Thallium		-	NR
	7440-62-2	Vanadium_			NR
	7440-66-6	Zinc			NR
		Cyanide			NR
Color Before:	COLORLESS	Clarit	y Before: CLE	AR_	Texture:
Color After:	COLORLESS	Clarit	ty After: CLE	AR_	Artifacts:
Comments:					

FORM I - IN .

b Name: COMPUCHEM Contract: OLM03-REVS MW13-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945706

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045706B57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/30/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L CAS NO. COMPOUND 0 74-87-3-----Chloromethane 10 U 10 U 74-83-9-----Bromomethane 75-01-4-----Vinyl Chloride 10 U 10 U 75-00-3------Chloroethane 10 J 75-09-2-----Methylene Chloride 67-64-1-----Acetone 4 | JB 10 U 75-15-0-----Carbon Disulfide 75-35-4-----1,1-Dichloroethene\_ 10 U 75-34-3-----1,1-Dichloroethane\_\_\_\_ 10 U 67-66-3-----Chloroform 10 U 107-06-2----1,2-Dichloroethane 10 U 78-93-3----2-Butanone 10 U 71-55-6-----1,1,1-Trichloroethane 10 U 10 U 56-23-5-----Carbon Tetrachloride 75-27-4-----Bromodichloromethane 10 U 78-87-5-----1,2-Dichloropropane\_\_\_\_\_ 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6-----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2----Benzene 10 U 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2----Bromoform 10 U 108-10-1-----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U 127-18-4-----Tetrachloroethene 10 U 79-34-5-----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene 10 U 100-41-4-----Ethylbenzene 10 U 100-42-5------Styrene 1330-20-7------Xylene (Total) 10 U 10 U 540-59-0-----1,2-Dichloroethene (total) 10 U

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MWl	3 ~	09
-----	-----	----

Lab Name: COMPUCHEM	(	Contract: OLM03-REVS		
Lab Code: COMPU Ca	ase No.: 34200	SAS No.: SE	OG No.: 00007	
Matrix: (soil/water) W	VATER	Lab Sample I	D: 945706	
Sample wt/vol:	5.0 (g/mL) mL	Lab File ID:	cn045706b57	
Level: (low/med) L	WOL.	Date Receive	d: 06/16/99	
% Moisture: not dec		Date Analyze	d: 06/30/99	
GC Column: EQUITY624 I	[D: 0.53 (mm)	Dilution Fac	tor: 1.0	
Soil Extract Volume:	(uL)	Soil Aliquot	Volume:	(ı

CONCENTRATION UNITS: Number TICs found: 1 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7 2. 3. 4. 5. 6. 7. 8. 9. 10.	COMPOUND NAME  ===================================	7.56	=========	Q ===== NJ 
12. 13. 14. 15. 16. 17. 18. 19. 20.				
22. 23. 24. 25. 26. 27. 28. 29. 30.				

67-72-1-----Hexachloroethane

111-91-1-----bis(2-Chloroethoxy) methane

120-82-1----1,2,4-Trichlorobenzene

59-50-7-----4-Chloro-3-methylphenol

88-06-2-----2,4,6-Trichlorophenol

95-95-4-----2,4,5-Trichlorophenol

91-58-7-----2-Chloronaphthalene\_\_\_

606-20-2-----2,6-Dinitrotoluene\_\_\_\_

77-47-4------Hexachlorocyclopentadiene

98-95-3-----Nitrobenzene

88-75-5-----2-Nitrophenol

91-20-3-----Naphthalene

105-67-9----2,4-Dimethylphenol

120-83-2----2,4-Dichlorophenol

87-68-3-----Hexachlorobutadiene

91-57-6----2-Methylnaphthalene

131-11-3-----Dimethylphthalate

99-09-2----3-Nitroaniline -

106-47-8-----4-Chloroaniline

88-74-4----2-Nitroaniline

208-96-8-----Acenaphthylene

83-32-9------Acenaphthene

78-59-1-----Isophorone

10 U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

25 U

10 U

25 U

10 U

10 U

10 U

25 U

10 U

MW13-09 b Name: COMPUCHEM Contract · OLM03-REVS SDG No.: 00007 Lab Code: COMPU Case No.: 34200 SAS No.: Lab Sample ID: 945706 Matrix: (soil/water) WATER 1000 (g/mL) ML Sample wt/vol: Lab File ID: GH045706A66 Level: (low/med) LOW Date Received: 06/16/99 decanted: (Y/N) % Moisture: Date Extracted: 06/22/99 Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/14/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 108-95-2----Phenol 10 U 111-44-4-----bis(2-Chloroethyl)ether 10 U 95-57-8----2-Chlorophenol 10 U 541-73-1-----1,3-Dichlorobenzene 10 U 106-46-7-----1,4-Dichlorobenzene\_ 95-50-1-----1,2-Dichlorobenzene\_ 10 U 10 U 95-48-7----2-Methylphenol 10 U 108-60-1----2,2'-oxybis(1-Chloropropane) 10 U 106-44-5-----4-Methylphenol 10 U 621-64-7----N-Nitroso-di-n-propylamine 10 U

FORM I SV-1

OLM03.0

MW13-09

10 U

25 I U

Contract: OLM03-REVS Lab Name: COMPUCHEM

Case No.: 34200 SAS No.: SDG No.: 00007 Lab Code: COMPU

Matrix: (soil/water) WATER Lab Sample ID: 945706

Sample wt/vol: 1000 (q/mL) ML Lab File ID: GH045706A66

Date Received: 06/16/99 Level: (low/med) LOW

decanted: (Y/N) Date Extracted: 06/22/99 % Moisture:

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/14/99

2.0 (uL) Dilution Factor: 1.0 Injection Volume:

GPC Cleanup: (Y/N) N pH:

86-73-7-----Fluorene

100-01-6----4-Nitroaniline

CONCENTRATION UNITS: (uq/L or uq/Kq) UG/L CAS NO. COMPOUND 0 25 U 51-28-5-----2,4-Dinitrophenol 25 100-02-7----4-Nitrophenol U 132-64-9-----Dibenzofuran 10 U 121-14-2----2,4-Dinitrotoluene 10 U 84-66-2-----Diethylphthalate 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U

534-52-1----4,6-Dinitro-2-methylphenol 25 U 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 U 87-86-5-----Pentachlorophenol 25 U 85-01-8-----Phenanthrene 10 U

120-12-7------Anthracene 10 U 10 86-74-8------Carbazole U 84-74-2-----Di-n-butylphthalate 10 U 10 U 206-44-0-----Fluoranthene 10 U 129-00-0----Pyrene 85-68-7-----Butylbenzylphthalate

10 U 91-94-1----3,37-Dichlorobenzidine 10 U 56-55-3-----Benzo(a) anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 1 J

117-84-0-----Di-n-octylphthalate 10 U 205-99-2-----Benzo(b) fluoranthene 10 U 207-08-9-----Benzo(k)fluoranthene 10 U 50-32-8-----Benzo (a) pyrene 10 U 193-39-5-----Indeno (1, 2, 3-cd) pyrene 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 U 191-24-2-----Benzo(g,h,i)perylene 10 U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

#### 1F SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

MW13-09

Contract: OLM03-REVS ab Name: COMPUCHEM

SDG No.: 00007

Matrix: (soil/water) WATER

Lab Sample ID: 945706

Sample wt/vol:

1000 (g/mL) ML

decanted: (Y/N)

Lab File ID: GH045706A66

Level: (low/med) LOW

Date Received: 06/16/99

% Moisture:

Lab Code: COMPU Case No.: 34200 SAS No.:

Date Extracted:06/22/99

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 07/14/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 6

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

- 1		<u></u>		<del></del>	<del></del>
- {	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	0
	===========	=======================================		==========	=====
	1.	TRICHLOROPROPENE (BC)	5.44	2	JB
-	2 .	UNKNOWN	12.00	3	J
١	3.	UNKNOWN	12.42	2	J
-	4.	UNKNOWN	13.80	2	J
	5.	UNKNOWN	14.99	2	J
	6 <i>.</i>	UNKNOWN CARBOXYLIC ACID	16.55	3	J
T	7				
	o •				
1	9.				
	10.				
	11.				
	⊥ <i>∠</i> , .			<u></u>	
	± J •				
	14·		<del></del>		
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FORM I SV-TIC

OLM03.0

MW13-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945706

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/18/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 06/25/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

319-84-6alpha-BHC			·
319-85-7	210 04 6 alpha BUC	0.050	, ,
319-86-8	319-04-0alpha-bnc		
58-89-9gamma-BHC (Lindane)       0.050 U         76-44-8Heptachlor       0.050 U         309-00-2Aldrin       0.050 U         1024-57-3Heptachlor epoxide       0.050 U         959-98-8Endosulfan I       0.050 U         72-55-9	319-85-7		
76-44-8Heptachlor       0.050 U         309-00-2Aldrin       0.050 U         1024-57-3Heptachlor epoxide       0.050 U         959-98-8Endosulfan I       0.050 U         60-57-1Dieldrin       0.10 U         72-55-94,4'-DDE       0.10 U         72-20-8Endrin       0.10 U         33213-65-9Endosulfan II       0.10 U         72-54-84,4'-DDD       0.10 U         1031-07-8Endosulfan sulfate       0.10 U         50-29-34,4'-DDT       0.10 U         72-43-5Methoxychlor       0.50 U         53494-70-5Endrin ketone       0.0042 JP         7421-93-4Endrin aldehyde       0.10 U         5103-74-2gamma-Chlordane       0.050 U         8001-35-2Toxaphene       5.0 U         1104-28-2Aroclor-121       2.0 U         11141-16-5Aroclor-1221       1.0 U         12672-29-6Aroclor-1242       1.0 U         11097-69-1Aroclor-1254       1.0 U		<b>= 1</b>	2
309-00-2	58-89-9gamma-BHC (Lindane)		
1024-57-3Heptachlor epoxide       0.050 U         959-98-8Endosulfan I       0.050 U         60-57-1Dieldrin       0.10 U         72-55-94,4'-DDE       0.10 U         72-20-8Endrin       0.10 U         33213-65-9Endosulfan II       0.10 U         72-54-84,4'-DDD       0.10 U         1031-07-8Endosulfan sulfate       0.10 U         50-29-34,4'-DDT       0.10 U         72-43-5Methoxychlor       0.50 U         53494-70-5Endrin ketcne       0.0042 JP         7421-93-4Endrin aldehyde       0.10 U         5103-74-2gamma-Chlordane       0.050 U         8001-35-2Toxaphene       0.050 U         1104-28-2Aroclor-1016       1.0 U         11141-16-5Aroclor-1221       2.0 U         1141-16-5Aroclor-1232       1.0 U         53469-21-9Aroclor-1242       1.0 U         11097-69-1Aroclor-1254       1.0 U          11097-69-1Aroclor-1254       1.0 U	76-44-8Heptachlor		
959-98-8Endosulfan I       0.050 U         60-57-1Dieldrin       0.10 U         72-55-94,4'-DDE       0.10 U         72-20-8Endrin       0.10 U         33213-65-9Endosulfan II       0.10 U         72-54-84,4'-DDD       0.10 U         1031-07-8Endosulfan sulfate       0.10 U         50-29-34,4'-DDT       0.10 U         72-43-5Methoxychlor       0.50 U         53494-70-5Endrin ketone       0.0042 JP         7421-93-4Endrin aldehyde       0.10 U         5103-74-2alpha-Chlordane       0.050 U         8001-35-2Toxaphene       5.0 U         12674-11-2Aroclor-1016       1.0 U         1104-28-2Aroclor-1221       2.0 U         1141-16-5Aroclor-1232       1.0 U         53469-21-9Aroclor-1248       1.0 U         11097-69-1Aroclor-1254       1.0 U		0.050	U
60-57-1Dieldrin       0.10 U         72-55-94,4'-DDE       0.10 U         72-20-8Endrin       0.10 U         33213-65-9Endosulfan II       0.10 U         72-54-84,4'-DDD       0.10 U         1031-07-8Endosulfan sulfate       0.10 U         50-29-34,4'-DDT       0.10 U         72-43-5Methoxychlor       0.50 U         53494-70-5Endrin ketone       0.0042 JP         7421-93-4Endrin aldehyde       0.10 U         5103-74-2alpha-Chlordane       0.050 U         8001-35-2Toxaphene       5.0 U         12674-11-2Aroclor-1212       2.0 U         11104-28-2Aroclor-1232       1.0 U         112672-29-6Aroclor-1248       1.0 U         11097-69-1Aroclor-1254       1.0 U			
72-55-94,4'-DDE       0.10 U         72-20-8Endrin       0.10 U         33213-65-9Endosulfan II       0.10 U         72-54-84,4'-DDD       0.10 U         1031-07-8Endosulfan sulfate       0.10 U         50-29-34,4'-DDT       0.10 U         72-43-5Methoxychlor       0.50 U         53494-70-5Endrin ketone       0.0042 JP         7421-93-4Endrin aldehyde       0.10 U         5103-71-9alpha-Chlordane       0.050 U         8001-35-2Toxaphene       5.0 U         12674-11-2Aroclor-1016       1.0 U         11104-28-2Aroclor-1232       1.0 U         53469-21-9Aroclor-1242       1.0 U         12672-29-6Aroclor-1248       1.0 U         11097-69-1Aroclor-1254       1.0 U	959-98-8Endosulfan I	0.050	U
72-20-8Endrin       0.10 U         33213-65-9Endosulfan II       0.10 U         72-54-84,4'-DDD       0.10 U         1031-07-8Endosulfan sulfate       0.10 U         50-29-34,4'-DDT       0.10 U         72-43-5Methoxychlor       0.50 U         53494-70-5Endrin ketone       0.0042 JP         7421-93-4Endrin aldehyde       0.10 U         5103-71-9alpha-Chlordane       0.050 U         8001-35-2Toxaphene       5.0 U         12674-11-2Aroclor-1016       1.0 U         11141-16-5Aroclor-1232       1.0 U         53469-21-9Aroclor-1242       1.0 U         12672-29-6Aroclor-1248       1.0 U         11097-69-1Aroclor-1254       1.0 U	60-57-1Dieldrin	0.10	U
72-20-8Endrin       0.10 U         33213-65-9Endosulfan II       0.10 U         72-54-84,4'-DDD       0.10 U         1031-07-8Endosulfan sulfate       0.10 U         50-29-34,4'-DDT       0.10 U         72-43-5Methoxychlor       0.50 U         53494-70-5Endrin ketone       0.0042 JP         7421-93-4Endrin aldehyde       0.10 U         5103-71-9alpha-Chlordane       0.050 U         8001-35-2Toxaphene       5.0 U         12674-11-2Aroclor-1016       1.0 U         11141-16-5Aroclor-1232       1.0 U         53469-21-9Aroclor-1242       1.0 U         12672-29-6Aroclor-1248       1.0 U         11097-69-1Aroclor-1254       1.0 U	72-55-94,4'-DDE	0.10	υ
33213-65-9Endosulfan II       0.10 U         72-54-84,4'-DDD       0.10 U         1031-07-8Endosulfan sulfate       0.10 U         50-29-34,4'-DDT       0.10 U         72-43-5Methoxychlor       0.50 U         53494-70-5Endrin ketcne       0.0042 JP         7421-93-4Endrin aldehyde       0.10 U         5103-71-9alpha-Chlordane       0.050 U         8001-35-2Toxaphene       5.0 U         12674-11-2Aroclor-1016       1.0 U         11141-16-5Aroclor-1232       1.0 U         53469-21-9Aroclor-1242       1.0 U         12672-29-6Aroclor-1248       1.0 U         11097-69-1Aroclor-1254       1.0 U			
72-54-84,4'-DDD       0.10       U         1031-07-8Endosulfan sulfate       0.10       U         50-29-34,4'-DDT       0.10       U         72-43-5Methoxychlor       0.50       U         53494-70-5Endrin ketone       0.0042       JP         7421-93-4Endrin aldehyde       0.10       U         5103-71-9alpha-Chlordane       0.050       U         8001-35-2Toxaphene       5.0       U         12674-11-2Aroclor-1016       1.0       U         11104-28-2Aroclor-1221       2.0       U         11141-16-5Aroclor-1232       1.0       U         53469-21-9Aroclor-1242       1.0       U         12672-29-6Aroclor-1248       1.0       U         11097-69-1Aroclor-1254       1.0       U			
1031-07-8Endosulfan sulfate       0.10 U         50-29-34,4'-DDT       0.10 U         72-43-5Methoxychlor       0.50 U         53494-70-5Endrin ketcne       0.0042 JP         7421-93-4Endrin aldehyde       0.10 U         5103-71-9alpha-Chlordane       0.050 U         8001-35-2Toxaphene       5.0 U         12674-11-2Aroclor-1016       1.0 U         11141-16-5Aroclor-1221       2.0 U         53469-21-9Aroclor-1242       1.0 U         12672-29-6Aroclor-1248       1.0 U         11097-69-1Aroclor-1254       1.0 U		1	_
50-29-34,4'-DDT       0.10 U         72-43-5Methoxychlor       0.50 U         53494-70-5Endrin ketcne       0.0042 JP         7421-93-4Endrin aldehyde       0.10 U         5103-71-9alpha-Chlordane       0.050 U         8001-35-2Toxaphene       5.0 U         12674-11-2Aroclor-1016       1.0 U         11104-28-2Aroclor-1221       2.0 U         11141-16-5Aroclor-1232       1.0 U         53469-21-9Aroclor-1242       1.0 U         12672-29-6Aroclor-1248       1.0 U         11097-69-1Aroclor-1254       1.0 U	1031-07-8Endosulfan sulfate		
72-43-5Methoxychlor       0.50 U         53494-70-5Endrin ketone       0.0042 JP         7421-93-4Endrin aldehyde       0.10 U         5103-71-9alpha-Chlordane       0.050 U         8001-35-2Toxaphene       5.0 U         12674-11-2Aroclor-1016       1.0 U         11104-28-2Aroclor-1221       2.0 U         1141-16-5Aroclor-1242       1.0 U         53469-21-9Aroclor-1248       1.0 U         11097-69-1Aroclor-1254       1.0 U			
53494-70-5Endrin ketcne       0.0042 JP         7421-93-4Endrin aldehyde       0.10 U         5103-71-9alpha-Chlordane       0.050 U         8001-35-2Toxaphene       5.0 U         12674-11-2Aroclor-1016       1.0 U         11104-28-2Aroclor-1221       2.0 U         53469-21-9Aroclor-1242       1.0 U         12672-29-6Aroclor-1248       1.0 U         11097-69-1Aroclor-1254       1.0 U	72-43-5Methoxychlor		
7421-93-4Endrin aldehyde       0.10 U         5103-71-9alpha-Chlordane       0.050 U         5103-74-2gamma-Chlordane       0.050 U         8001-35-2Toxaphene       5.0 U         12674-11-2Aroclor-1016       1.0 U         11104-28-2Aroclor-1221       2.0 U         1141-16-5Aroclor-1232       1.0 U         53469-21-9Aroclor-1242       1.0 U         12672-29-6Aroclor-1248       1.0 U         11097-69-1Aroclor-1254       1.0 U	53/9/-70-5Endrin ketone		
5103-71-9alpha-Chlordane       0.050 U         5103-74-2gamma-Chlordane       0.050 U         8001-35-2Toxaphene       5.0 U         12674-11-2Aroclor-1016       1.0 U         11104-28-2Aroclor-1221       2.0 U         1141-16-5Aroclor-1232       1.0 U         53469-21-9Aroclor-1242       1.0 U         12672-29-6Aroclor-1248       1.0 U         11097-69-1Aroclor-1254       1.0 U		I	
5103-74-2gamma-Chlordane       0.050 U         8001-35-2Toxaphene       5.0 U         12674-11-2Aroclor-1016       1.0 U         11104-28-2Aroclor-1221       2.0 U         11141-16-5Aroclor-1232       1.0 U         53469-21-9Aroclor-1242       1.0 U         12672-29-6Aroclor-1248       1.0 U         11097-69-1Aroclor-1254       1.0 U	F102 71 0 alpha-Chlordano		
8001-35-2Toxaphene       5.0 U         12674-11-2Aroclor-1016       1.0 U         11104-28-2Aroclor-1221       2.0 U         11141-16-5Aroclor-1232       1.0 U         53469-21-9Aroclor-1242       1.0 U         12672-29-6Aroclor-1248       1.0 U         11097-69-1Aroclor-1254       1.0 U			
12674-11-2Aroclor-1016       1.0 U         11104-28-2Aroclor-1221       2.0 U         11141-16-5Aroclor-1232       1.0 U         53469-21-9Aroclor-1242       1.0 U         12672-29-6Aroclor-1248       1.0 U         11097-69-1Aroclor-1254       1.0 U	5103-74-2gaillid-Chiordane		
11104-28-2Aroclor-1221 2.0 U 11141-16-5Aroclor-1232 1.0 U 53469-21-9Aroclor-1242 1.0 U 12672-29-6Aroclor-1248 1.0 U 11097-69-1Aroclor-1254 1.0 U			
11141-16-5Aroclor-1232 53469-21-9Aroclor-1242 12672-29-6Aroclor-1248 11097-69-1Aroclor-1254			
53469-21-9Aroclor-1242 1.0 U 12672-29-6Aroclor-1248 1.0 U 11097-69-1Aroclor-1254 1.0 U			
12672-29-6Aroclor-1248 1.0 U 11097-69-1Aroclor-1254 1.0 U			_
11097-69-1Aroclor-1254 1.0 U			
11096-82-5Aroclor-1260 1.0 U			
	11096-82-5Aroclor-1260	_  1.0	U
			_

# 1 INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO
		INO

•		INORGANIC A	ANALYSES DATA :	SHE	EET	,		
Lab Name: COMPI	UCHEM		Contract: I	LM(	04.0	. MW	09-د1	
Lab Code: COMP	U_ Cas	se No.: 342	SAS No.	: _		SDG	No.: 0	0007_
Matrix (soil/wa	ater): WATE	3		La	ab Sampl	le ID	: 94570	6
Level (low/med)	): LOW_	-		Da	ate Rece	eived	: 06/16,	/99
% Solids:	0.0	0	•					
Cor	ncentration	Units (ug,	/L or mg/kg dry	y v	weight)	: UG/I	J	
	CAS No.	Analyte	Concentration	С	Q	M		
	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7	Aluminum_ Antimony_ Arsenic_ Barium_ Beryllium	50.2 1.8 2.2 83.2 0.19	U B B		P		

Cadmium P\_ P\_ 7440-43-9 1.2 B 165000 7440-70-2 Calcium 7440-47-3 Ū P\_ Chromium 0.90 Р Р Р 0.60 U 7440-48-4 Cobalt Copper 1.1 7440-50-8 U Ρ\_ Iron 7620 7439-89-6 ีบิ P\_ 7439-92-1 Lead 1.0 P-7439-95-4 Magnesium 48900 Manganese 813 P\_ 7439-96-5 Mercury\_ 0.02  $\overline{\mathbf{U}}$  $C\overline{V}$ 7439-97-6 P\_ P\_ P\_ Nickel В 7440-02-0 1.4 1720 Potassium 7440-09-7 В Ε Selenium 3.1 U 7782-49-2 P\_ 7440-22-4 Silver 0.30 U P\_ Sodium 26100 7440-23-5 P\_ P\_ Thallium 7440-28-0 4.1 U Vanadium -0.89 В 7440-62-2 Zinc  $P^{-}$ 7440-66-6 2.0 B

Color Before:	COLORLESS	Clarity	Before:	CLEAR_	Texture:
Color After:	COLORLESS	Clarity	After:	CLEAR_	Artifacts:
Comments:				·	
				****	

4.7 U

 $C\overline{A}$ 

Cyanide

#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW13-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945669

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045669B57

Level: (low/med) LOW . Date Received: 06/16/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/30/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) ug/L

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L

		<u> </u>	·
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
	Chloroethane	1.0	U
	Methylene Chloride	2	
67-64-1		2	
	Carbon Disulfide	10	1
75-35-4	1,1-Dichloroethene	10	_
75-31-3	1,1-Dichloroethane	10	~
	Chloroform	10	
	1,2-Dichloroethane	10	
	2-Butanone	10	l.
		10	, –
/1-55-6	1,1,1-Trichloroethane		
	Carbon Tetrachloride	10	
	Bromodichloromethane	10	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	10	l .
	Trichloroethene	10	
	Dibromochloromethane	10	
	1,1,2-Trichloroethane	10	•
71-43-2		10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2 <b></b>	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	lυ
	1,1,2,2-Tetrachloroethane	10	1
108-88-3		10	1
	Chlorobenzene	10	1
	Ethylbenzene	10	1
100-42-5		10	
1220-42-3	Xylene (Total)	10	Ü
1330-20-7	1,2-Dichloroethene (total)	10	, –
540-53-0	I, Z-DICHIOLOGCHEHE (COCAL)	1	١٠
		·	l

FORM I VOA

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW13-99

b	Name:	COMPUCHEM

Cor ract: OLM03-REVS

SDG No.: 00007

Matrix: (soil/water) WATER

Lab Sample ID: 945669

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID:

cn045669b57

Level: (low/med)

SAS No.:

Date Received: 06/16/99

% Moisture: not dec.

Date Analyzed: 06/30/99

Soil Aliquot Volume:

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

(uL

Soil Extract Volume: \_\_\_\_(uL)

Lab Code: COMPU Case No.: 34200

LOW

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27.	======================================	7.56	### ### ### ### ### ### ### ### ### ##	=====
28. 29. 30.				

MW13-99

Contract: OLM03-REVS Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Lab Sample ID: 945669 Matrix: (soil/water) WATER

1000 (g/mL) ML Lab File ID: GH045669A66 Sample wt/vol:

Date Received: 06/16/99 Level: (low/med) LOW

% Moisture: decanted: (Y/N) Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/14/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH: \_\_\_\_

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND

108-95-2Phenol	10	TT
111-44-4bis(2-Chloroethyl)ether	10	
95-57-82-Chlorophenol	10	
541-73-11,3-Dichlorobenzene	10	
	10	
106-46-71,4-Dichlorobenzene	10	l
95-50-11,2-Dichlorobenzene 95-48-72-Methylphenol	10	l =
95-48-/2-Methylphenor	10	_
108-60-12,2'-oxybis(1-Chloropropane)		-
106-44-54-Methylphenol	10	l
621-64-7N-Nitroso-di-n-propylamine	. 10	1
67-72-1Hexachloroethane	10	
98-95-3Nitrobenzene	10	l
78-59-1Isophorone	10	
88-75-52-Nitrophenol	10	l
105-67-92,4-Dimethylphenol	10	l
111-91-1bis(2-Chloroethoxy)methane	10	1
120-83-22,4-Dichlorophenol	10	
120-82-11,2,4-Trichlorobenzene	10	4
91-20-3Naphthalene	10	1 -
106-47-84-Chloroaniline	10	
87-68-3Hexachlorobutadiene	10	
59-50-74-Chloro-3-methylphenol	10	
91-57-62-Methylnaphthalene	10	U
77-47-4Hexachlorocyclopentadiene	10	U
88-06-22,4,6-Trichlorophenol	10	U
95-95-42,4,5-Trichlorophenol	25	U
91-58-72-Chloronaphthalene	10	U
88-74-42-Nitroaniline	25	U
131-11-3Dimethylphthalate	10	U
208-96-8Acenaphthylene	10	U
606-20-22,6-Dinitrotoluene	10	1
99-09-23-Nitroaniline	25	1
83-32-9Acenaphthene	10	
*	•	

FORM I SV-1

OLM03.0

MW13-99 Name: COMPUCHEM Contract: OLM03-REVS Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007 Lab Sample ID: 945669 Matrix: (soil/water) WATER Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045669A66 Level: (low/med) LOW Date Received: 06/16/99 % Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_ Date Extracted:06/22/99 Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/14/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N pH: \_\_\_

CAS NO.	COMPOUND	(ug/L or	ug/Kg) UG/L		Q
100-02-7	2,4-Dinitroph 4-Nitrophenol	enol		25 U	J
	Dibenzofuran_	<b>-</b>		10 L	
	2,4-Dinitroto			10 [	
84-66-2	Diethylphthal	ate	·	10 [	
	4-Chloropheny	1-buenAretue	f	10 [	
	Fluorene	<del></del>		10 [	
	4-Nitroanilin			25   t	
534-52-1	4,6-Dinitro-2	-metnyipneno	<u> </u>	25 L	_
86-30-6	N-nitrosodiph	enyramine (1)	'	10 [	
101-55-3	4-Bromophenyl	-pnenylether		10 [	
	Hexachloroben			10 [	
	Pentachloroph	enor		25 [	
	Phenanthrene_		<del></del> .	10 [	
	Anthracene	<del></del>		10 [	-
	Carbazole	hala#a	<del></del>	10 [	
	Di-n-butylpht	narace	<del></del>	10 [	
	Fluoranthene_			10 [	
129-00-0	Pyrene	tholoto		10 [	
85-68-7	Butylbenzylph	tnarate		10   [	_
91-94-1	3,3'-Dichloro	benziaine		10   [	_
	Benzo(a) anthr	acene		10 1	
218-01-9	Chrysene			10 0	
117-81-7	bis(2-Ethylhe	xy1)pntnalate	e		J
117-84-0	Di-n-octylpht	narace			J
	Benzo(b) fluor				J
	Benzo(k)fluor				J.
	Benzo(a)pyren			10 1	
193-39-5	Indeno (1, 2, 3-	ca) pyrene		10 [	
53-70-3	Dibenzo (a, h) a	inthracene		10 1	
191-24-2	Benzo(g,h,i)p	erylene		10 1	U
) - Cannot b	e separated from D	Diphenvlamine			

#### 1F SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW13-99

Lab	Name:	COMP	UCHEM

Contract: OLM03-REVS

SDG No.: 00007

Lab Code: COMPU Case No.: 34200 SAS No.:

Matrix: (soil/water) WATER

Lab Sample ID: 945669

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: GH045669A66

Level: (low/med) LOW

Date Received: 06/16/99

% Moisture: decanted: (Y/N)

Date Extracted: 06/22/99

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 07/14/99

Injection Volume: 2.0(uL)

Number TICs found: 3

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	TRICHLOROPROPENE (BC)	5.44	2	==== JB
2.	UNKNOWN	12.00 12.40	3 2	J J
5.				
8				
10.				
11. 12. 13.				
15.				
16. 17. 18.				
20.				
22.				
23. 24. 25.				
27.			,	
29.				
30.				

FORM I SV-TIC

OLM03.0

MW13-99 Contract: OLM03-REVS Name: COMPUCHEM Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007 Matrix: (soil/water) WATER Lab Sample ID: 945669 1000 (q/mL) ML Lab File ID: Sample wt/vol: % Moisture: \_\_\_ decanted: (Y/N)\_\_\_ Date Received: 06/16/99 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/18/99 Concentrated Extract Volume: 10000(uL) Date Analyzed: 06/25/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) UG/L 0 CAS NO. 319-84-6----alpha-BHC 0.050 U 0.0067 JP 319-85-7-----beta-BHC 319-86-8-----delta-BHC 0.050 U 58-89-9-----gamma-BHC (Lindane) 0.0043 J 76-44-8------Heptachlor 0.0031 JP 309-00-2-----Aldrin 0.050 U 1024-57-3-----Heptachlor epoxide 0.050 U 959-98-8-----Endosulfan I 0.050 U 0.0056 JP 60-57-1------Dieldrin 72-55-9-----4,4'-DDE 0.10 U 72-20-8-----Endrin 0.0060 J 33213-65-9-----Endosulfan II 0.10 U 72-54-8-----4,4'-DDD 0.10 U 1031-07-8-----Endosulfan sulfate 0.10 U 50-29-3-----4,4'-DDT 0.0076 J 72-43-5-----Methoxychlor 0.50 U 0.10 U 53494-70-5----Endrin ketone 0.10 U 7421-93-4-----Endrin aldehyde 5103-71-9-----alpha-Chlordane 0.050 U 5103-74-2-----gamma-Chlordane\_\_\_\_\_ 8001-35-2-----Toxaphene\_\_\_\_ 0.050 U 5.0 U

12674-11-2----Aroclor-1016

11104-28-2----Aroclor-1221

11141-16-5-----Aroclor-1232

53469-21-9-----Aroclor-1242

12672-29-6-----Aroclor-1248

11097-69-1-----Aroclor-1254

11096-82-5-----Aroclor-1260

1.0 U

2.0 U

1.0 U

1.0 U

1.0 U

1.0 U

1.0 U

## 1 INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NΟ
-	DUALTIE	INO.

Lab Name: COMP	UCHEM		Contract: I	LM04	. 0	MW13-99
Lab Code: COMP	'U_ Ca	se No.: 34	200_ SAS No.	:		SDG No.: 00007_
Matrix (soil/w	ater): WATE	R		Lab	Sampl	e ID: 945669
Level (low/med	) LOW_	_		Dat	e Rece	ived: 06/16/99
Solids:	0.	0				
Co	ncentration	Units (ug,	/L or mg/kg dry	y we	ight):	UG/L
	CAS No.	Analyte	Concentration	C	Q	M
	7429-90-5	Aluminum	51.1	$\left  \frac{1}{B} \right  -$		<u>P</u>
	7440-36-0	Antimony	2.1			p <sup>-</sup>
	7440-38-2	Arsenic -	2.0			P_
	7440-39-3	Barium —	84.1	$ _{B} ^-$		P_
	7440-41-7	Beryllium	0.23	B _		P .
	7440-43-9	Cadmium	1.3	B -		P <sup>-</sup>
	7440-70-2	Calcium	164000	-		P
	7440-47-3	Chromium	0.90	$\overline{v}$   $\overline{-}$		p <sup>-</sup>
	7440-48-4	Cobalt	0.60	1 1 —		P <sup>-</sup>
	7440-50-8	Copper	1.1			P
	7439-89-6	Iron	7740			P
	7439-92-1	Lead	1.0			P
	7439-95-4	Magnesium	48800		:	P
	7439-96-5	Manganese	809		:	P .
	7439-97-6	Mercury	0.02			CV
	7440-02-0	Nickel	1.3			P
	7440-09-7		1650			P_
	7782-49-2	Selenium	3.1		[;	P_
	7440-22-4		0.30			P
	7440-23-5	Sodium Sodium	26200			P
	7440-28-0	Thallium	4.1			F_
	7440-28-0	Vanadium	1.1			P .
	7440-62-2	Zinc	1.1	· · · —		P
	7440-00-0		4.7			<u> </u>
		Cyanide	4.7	_ _		CA
Color Before:	COLORLESS	Clari	ty Before: CLE	AR_		Texture:
Color After:	COLORLESS	Clari	ty After: CLE	AR_		Artifacts:
Comments:						

FORM I - IN

b Name: COMPUCHEM Contract: OLM03-REVS MW14-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945684

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045684A57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/29/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_\_(uL

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L CAS NO. COMPOUND 0 74-87-3-----Chloromethane 10 U 74-83-9-----Bromomethane 10 U 75-01-4-----Vinyl Chloride 10 U 75-00-3-----Chloroethane 10 U 75-09-2-----Methylene Chloride 3 J 67-64-1-----Acetone 10 75-15-0-----Carbon Disulfide 10 U 75-35-4-----1,1-Dichloroethene 10 U 10 U 10 U 107-06-2----1,2-Dichloroethane 10 U 78-93-3----2-Butanone 10 U 71-55-6-----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 U 75-27-4-----Bromodichloromethane 10 U 78-87-5-----1,2-Dichloropropane\_ 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6-----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2-----Benzene 10 U 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2-----Bromoform 10 U 108-10-1----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U 127-18-4-----Tetrachloroethene 10 U 79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene 10 U 100-41-4-----Ethylbenzene 10 U 100-42-5-----Styrene 1330-20-7------Xylene (Total) 540-59-0-----1,2-Dichloroethene (total) 10 U 10 U 10 U

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW14-09
---------

Lab Name: COMPUCHEM	Contract	: OLM03-REVS	MW14-09
Lab Code: COMPU Case	No.: 34200 SAS No.	: SDG	No.: 00003
Matrix: (soil/water) WATE	ER .	Lab Sample ID:	945684
Sample wt/vol: 5.	0 (g/mL) mL	Lab File ID:	cn045684a57
Level: (low/med) LOW		Date Received:	06/16/99
% Moisture: not dec	· 	Date Analyzed:	06/29/99
GC Column: EQUITY624 ID:	0.53 (mm)	Dilution Facto	r: 1.0
Soil Extract Volume:	(111.)	Soil Aliquet V	olume.

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT		Q
1.				
2. 3.			<u> </u>	
5				
6. 7. 8.				
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12.				
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19. 20.				
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FORM I VOA-TIC

MW14-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

SDG No.: 00003 ab Code: COMPU Case No.: 34200 SAS No.:

Matrix: (soil/water) WATER Lab Sample ID: 945684

Lab File ID: GH045684A66 980 (q/mL) ML Sample wt/vol:

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: decanted: (Y/N) Date Extracted:06/17/99

Date Analyzed: 06/22/99 Concentrated Extract Volume: 1000(uL)

Injection Volume: 2.0(uL) Dilution Factor: 1.0

pH:

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

108-95-2----Phenol 10 U 111-44-4----bis(2-Chloroethyl)ether 10 U 95-57-8----2-Chlorophenol 10 U 541-73-1----1,3-Dichlorobenzene 10 U 106-46-7----1,4-Dichlorobenzene 10 U 95-50-1-----1,2-Dichlorobenzene 10 U 95-48-7----2-Methylphenol 10 U 108-60-1----2,2'-oxybis(1-Chloropropane) 10 U 106-44-5-----4-Methylphenol 10 U 621-64-7----N-Nitroso-di-n-propylamine 10 U 67-72-1----Hexachloroethane 10 U 98-95-3-----Nitrobenzene 10 U 78-59-1-----Isophorone 10 U 88-75-5----2-Nitrophenol 10 U 105-67-9-----2,4-Dimethylphenol 10 U 111-91-1-----bis(2-Chloroethoxy) methane 10 U 120-83-2----2,4-Dichlorophenol 10 U 120-82-1----1,2,4-Trichlorobenzene 10 U 91-20-3-----Naphthalene 10 U 106-47-8----4-Chloroaniline 10 U 87-68-3-----Hexachlorobutadiene 10 U 59-50-7----4-Chloro-3-methylphenol 10 U 91-57-6----2-Methylnaphthalene 10 U 77-47-4-----Hexachlorocyclopentadiene 10 U 88-06-2-----2,4,6-Trichlorophenol 10 U 95-95-4----2,4,5-Trichlorophenol 26 l U 91-58-7----2-Chloronaphthalene 10 U 88-74-4----2-Nitroaniline 26 U 131-11-3-----Dimethylphthalate 10 0 208-96-8-----Acenaphthylene 10 U 606-20-2----2,6-Dinitrotoluene\_ 10 U 99-09-2-----3-Nitroaniline\_\_\_\_ 26 U 83-32-9-----Acenaphthene\_ 10 U

FORM I SV-1

MW14-09 Contract: OLM03-REVS Lab Name: COMPUCHEM

SDG No.: 00003 Lab Code: COMPU Case No.: 34200 SAS No.:

Lab Sample ID: 945684 Matrix: (soil/water) WATER

Lab File ID: GH045684A66 Sample wt/vol: 980 (q/mL) ML

Date Received: 06/16/99 Level: (low/med) LOW

% Moisture: \_\_\_ decanted: (Y/N) Date Extracted:06/17/99

Date Analyzed: 06/22/99 Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

pH:

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q · CAS NO. COMPOUND

		<del></del>	
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U .
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	. 10	U
7005-72-3	4-Chlorophenyl-phenylether_	10	U
86-73-7	Fluorene	10	U
	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
	N-nitrosodiphenylamine (1)	10	U
	4-Bromophenyl-phenylether	10	U
	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
	Phenanthrene	10	Ū
	Anthracene	10	U
	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	Ū
91-94-1	3,3'-Dichlorobenzidine	10	U
	Benzo(a) anthracene	10	U
218-01-9		10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
	Indeno(1,2,3-cd)pyrene	10	U
	Dibenzo(a,h)anthracene	10	[ប
	Benzo(g,h,i)perylene	10	U
			ĺ

FORM I SV-2

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	•	MW14-09
ontroat.	OTMOS SETTS	

Tab	Name:	COMPUCHEM				Contract:	OLM03-REVS			
цаb	Code:	COMPU	Case	No.:	34200	SAS No.:	SDG	No.:	00003	

Matrix: (soil/water) WATER Lab Sample ID: 945684

Lab File ID: GH045684A66 Sample wt/vol: 980 (g/mL) ML

Level: (low/med) Date Received: 06/16/99 LOW

% Moisture: decanted: (Y/N) Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) UG/L

1	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2				
5.				
6			<u> </u>	
8.	1			
10				
12.				
14.				
16				
18.				
20.				
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FORM I SV-TIC

#### 1D PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM

EPA SAMPLE NO.

		MW14-09	
Contract:	OLM03-REVS		

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945684

Sample wt/vol: 1020 (g/mL) ML Lab File ID:

% Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99 ( day

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99 | 8 doy5

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

(45, 4 04 45,	5,,	~
319-84-6	0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.098 0.098 0.098 0.098 0.098 0.098 0.098 0.098	מממממממממממממממממ
33213-65-9Endosulfan II	0.098 0.098	U U
1031-07-8Endosulfan sulfate 50-29-3	0.098 0.098 0.49	U U U
7421-93-4Endrin aldehyde 5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane	0.098 0.049 0.049	U U U
12674-11-2Aroclor-1016 11104-28-2Aroclor-1221 11141-16-5Aroclor-1232 53469-21-9Aroclor-1242	0.98 2.0 0.98 0.98	บ บ บ
12672-29-6Aroclor-1248 11097-69-1Aroclor-1254 11096-82-5Aroclor-1260	0.98 0.98 0.98	U U
l	l	

# 1

EPA	SAMPLE	NO.

	INORGANIC	ANALYSES DATA S	SHEET		
Lab Name: COMPUCHEM		Contract: II	M04.0	MW14-09	
		•	<del></del>		
Lab Code: COMPU_	Case No.: 34	200_ SAS NO.:		SDG No.: 0	0003_
Matrix (soil/water): W	VATER		Lab Sampl	e ID: 94568	4
Level (low/med):	TOM	•	Date Rece	ived: 06/16	/99
% Solids:	0.0				
Concentrat	tion Units (ug	/L or mg/kg dry	weight):	UG/L	
CAS No	Analyte	Concentration		M	
CAS NO.	Allalyce	Concentration	C Q	141	
7429-90	0-5 Aluminum	8300		P	
7440-36	5-0 Antimony_		B	P_	
7440-38	· —	67.2	_	P_	•
. 7440-39			B .	P_	
		1	B	P	
7440-43	192-27-10		U - p.	P_	
7440-70		54400		P_	
7440-47		185		P_	
7440-48		.	B	P_	
7440-50	,	33.8		P_	
7439-89		.  <u></u> 98700	_	P_	
7439-92		5.2		P_	
7439-95	5-4   Magnesium			P_	
7439-96	, –			P_	
7439-97	7-6 Mercury	0.05	U	CV	
7440-02		128		P	
7440-09			_{_E	P_	
7782-49	9-2  Selenium_	6.6	_   _ N	P_	
7440-22			U	P	
7440-23	3-5  Sodium	16400		P	
7440-28		10.9		P	
7440~62	2-2 Vanadium_	98.2		P_	
7440-66	6-6 Zinc	44.5	-জ *	P_	. •-
	Cyanide	4.7	<u></u>	CA	
Color Before: COLORLI	ESS Clari	ty Before: CLEA	AR_	Texture:	
Color After: COLORLI	ESS Clari	ty After: CLEA	AR_	Artifacts:	
Comments:			•		

FORM I - IN

#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM

EPA SAMPLE NO.

MW15-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Contract: OLM03-REVS

CONCENTRATION UNITS:

Matrix: (soil/water) WATER Lab Sample ID: 945261

Sample wt/vol: 5.0 (q/mL) mLLab File ID: CR045261A57

Level: (low/med) Date Received: 06/12/99 LOW

% Moisture: not dec. Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_\_(uL Soil Extract Volume: \_\_(uL)

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q 74-87-3------Chloromethane 10 U 74-83-9-----Bromomethane 10 U 75-01-4-----Vinyl Chloride 10 U 75-00-3-----Chloroethane 10 U 5 | J 75-09-2-----Methylene Chloride 67-64-1-----Acetone 4 J 75-15-0-----Carbon Disulfide 10 U 75-35-4-----1,1-Dichloroethene U 10 75-34-3-----1,1-Dichloroethane 10 U 67-66-3-----Chloroform 10 U 107-06-2----1,2-Dichloroethane 10 U 78-93-3-----2-Butanone 10 U 71-55-6-----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 U 75-27-4-----Bromodichloromethane 10 U 78-87-5-----1,2-Dichloropropane\_ 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6-----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2----Benzene 3 J 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2-----Bromoform 10 U 108-10-1-----4-Methyl-2-Pentanone 10 U 591-78-6-----2-Hexanone 10 U 127-18-4----Tetrachloroethene 10 U 79-34-5-----1,1,2,2-Tetrachloroethane 10 l U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene 10 U 100-41-4-----Ethylbenzene 10 U 100-42-5------Styrene 1330-20-7------Xylene (Total) 10 U 10 U 540-59-0-----1,2-Dichloroethene (total) 10 U

FORM I VOA

#### · 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW15-09

|--|

Contract: OLM03-REVS

Lab Code: COMPU

Case No.: 34200

SAS No.:

SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 945261

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cr045261a57

Level: (low/med) LOW

Date Received: 06/12/99

% Moisture: not dec.

Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_\_(uL

Soil Extract Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME		EST. CONC.	
	=======================================	== ======	========	====
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2		—   <del></del>		·
4			<del></del>	<del></del>
5.		—   <del></del>		
6.				
7	<del></del>	<u> </u>		
8			· · · · · · · · · · · · · · · · · · ·	
9. ———				
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MW15-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 945261

Sample wt/vol: 950 (g/mL) ML

Lab File ID: GH045261B70

Q

Level: (low/med) LOW

Date Received: 06/12/99

Date Extracted:06/16/99

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_\_

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

28 day

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

		CONCENTRATION UNITS:
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L

108-95-2Phenol 111-44-4bis(2-Chloroethyl)ether	10 10	Ū
95-57-82-Chlorophenol	10	
106-46-71,4-Dichlorobenzene	10	- 1
95-50-11,2-Dichlorobenzene	10	
95-48-72-Methylphenol 108-60-12,2'-oxybis(1-Chloropropane)	10 10	
106-44-54-Methylphenol	10	
621-64-7N-Nitroso-di-n-propylamine	10	
67-72-1Hexachloroethane 98-95-3Nitrobenzene	10	_
78-59-1Isophorone	10	_
88-75-52-Nitrophenol	10	
105-67-92,4-Dimethylphenol 111-91-1bis(2-Chloroethoxy)methane	10 10	
120-83-22,4-Dichlorophenol	10	
120-82-11,2,4-Trichlorobenzene	10	1 1
91-20-3Naphthalene 106-47-84-Chloroaniline	10 10	1 1
87-68-3Hexachlorobutadiene	10	1 1
59-50-74-Chloro-3-methylphenol	10	
91-57-62-Methylnaphthalene 77-47-4Hexachlorocyclopentadiene	10	
88-06-22,4,6-Trichlorophenol (	10	1 1
95-95-42,4,5-Trichlorophenol	26	I I
91-58-72-Chloronaphthalene 88-74-42-Nitroaniline	10 26	1
131-11-3Dimethylphthalate	10	1 ' 1
208-96-8Acenaphthylene	10	1 - 1
606-20-22,6-Dinitrotoluene 99-09-23-Nitroaniline	10 26	
83-32-9Acenaphthene	10	1

MW15-09

ontract: OLM03-REVS b Name: COMPUCHEM Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945261

Lab File ID: GH045261B70 Sample wt/vol: 950 (g/mL) ML

Level: (low/med) Date Received: 06/12/99 LOW

decanted: (Y/N) Date Extracted:06/16/99 % Moisture:

Date Analyzed: 07/07/99 Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

		·
51-28-52,4-Dinitrophenol 100-02-74-Nitrophenol 132-64-9Dibenzofuran 121-14-22,4-Dinitrotoluene 84-66-2Diethylphthalate 7005-72-34-Chlorophenyl-phenylether 86-73-7Fluorene 100-01-64-Nitroaniline 534-52-14,6-Dinitro-2-methylphenol 86-30-6N-nitrosodiphenylamine (1) 101-55-34-Bromophenyl-phenylether 118-74-1Hexachlorobenzene 87-86-5Pentachlorophenol 85-01-8Phenanthrene 120-12-7Anthracene 86-74-8Carbazole 84-74-2Di-n-butylphthalate 206-44-0Fluoranthene 129-00-0Pyrene 85-68-7Butylbenzylphthalate 91-94-13,3'-Dichlorobenzidine 56-55-3Benzo(a) anthracene 218-01-9	26 10 10 10 10 26 26 10 10 10 10 10 10 10 10 10 10 10 10	ממממממממממממממממממממממ
117-81-7bis(2-Ethylhexyl)phthalate	10 10 10	บ บ บ
207-08-9Benzo(k)fluoranthene	10 10 10 10	ת מ
) - Cannot be separated from Diphenylamine		

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW15-09

Lab	Name:	COMPUCHEM	Contract:	OLM03-REVS	l

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945261

Sample wt/vol: 950 (g/mL) ML Lab File ID: GH045261B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

Number TICs found: 15

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
1. 2. 3. 4. 5. 6. 7. 98-73-7 8. 9. 10. 11. 12. 13. 14. 15.	UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN BENZOIC ACID, P-TERT-BUTYL- UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN	6.02 6.31 7.27 8.08 9.15 9.45 9.86 11.07 12.07 12.44 13.12 13.41 14.96 15.08 17.43	3 4 3 27 3 3 3 4 3 2 8 5 2 5	J J J J J J J J J J

FORM I SV-TIC

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MW15-09 Name: COMPUCHEM Contract: OLM03-REVS Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945261

Sample wt/vol: 980.0 (q/mL) ML Lab File ID:

Date Received: 06/12/99 % Moisture: \_\_\_ decanted: (Y/N)\_\_\_

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/16/99 5 days

Date Analyzed: 07/05/99 Concentrated Extract Volume: 10000(uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Injection Volume: 2.0(uL) Dilution Factor: 1.0

COMPOUND

12672-29-6-----Aroclor-1248

11097-69-1-----Aroclor-1254

11096-82-5----Aroclor-1260

CAS NO.

GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N

319-84-6-----alpha-BHC 0.051 U 319-85-7-----beta-BHC 0.0081 JPB 319-86-8-----delta-BHC 0.0016 JP 58-89-9-----gamma-BHC (Lindane) 0.0033 JP 76-44-8-------Heptachlor 0.0074 JP 309-00-2-----Aldrin 0.0021 JP 1024-57-3-----Heptachlor epoxide 0.051 U 959-98-8-----Endosulfan I 0.051 U 60-57-1-----Dieldrin 0.10 U 72-55-9-----4,4'-DDE 0.10 U 72-20-8-----Endrin 0.10 U 33213-65-9----Endosulfan II 0.10 U 72-54-8-----4,4'-DDD 0.10 U 1031-07-8-----Endosulfan sulfate\_\_\_\_ 0.10 U 50-29-3-----4,4'-DDT 0.10 U 72-43-5-----Methoxychlor 0.51 U 53494-70-5-----Endrin ketone 0.10 U 7421-93-4-----Endrin aldehyde 0.10 U 5103-71-9----alpha-Chlordane 0.051 U 5103-74-2----gamma-Chlordane 0.051 U 8001-35-2-----Toxaphene 5.1 U 12674-11-2----Aroclor-1016 1.0 U 11104-28-2----Aroclor-1221 2.0 U 11141-16-5----Aroclor-1232 1.0 U 53469-21-9-----Aroclor-1242 1.0 0

1.0 U

1.0 U

1.0 U

## U.S. EPA - CLP

## 1 INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO
	יות חוד טייי	-110

ub Name: COMP	UCHEM		Contract: I	LM04.0	MW15-09
				<del>_</del>	SDG No.: 00003_
trix (soil/w	ater): WATE	R		Lab Sampl	e ID: 945261
vel (low/med	): LOW_	_	•	Date Rece	ived: 06/12/99
Solids:	0.	0			
Со	ncentration	Units (ug,	/L or mg/kg dry	y weight):	UG/L
	CAS No.	Analvte	Concentration	C Q	M
		l			
	7429-90-5	Aluminum_	237	<del>-  </del>	P_
	7440-36-0	Antimony_	1.8	U	P_
	7440-38-2 7440-39-3	Arsenic Barium	49.7		P_ P_
			0.47		P_
			977.745.865.25.475.45.50.50.50.	111-12	P_
	7440-70-2	Calcium	52100		P-
	7440-47-3	Chromium	4.1	$\left  \frac{1}{B} \right $	P .
	7440-48-4	Cobalt	5.5		
	7440-50-8	Copper	3.0	B	P
	7439-89-6	Iron	4180		P_
	7439-92-1	Lead	1.0	Ū	F_ P_ P_ P_ P_
	7439-95-4	Magnesium	61700		P_
	7439-96-5	Manganese	171		P_
	7439-97-6	Mercury	0.05	U	$C\overline{V}$
	7440-02-0	Nickel	19.8	B	P_
		Potassium		E	P_
	7782-49-2	Selenium_	3.1	UN	P
	7440-22-4	Silver	0.30	U	P
	7440-23-5	Sodium	495000	_ -	P
	7440-28-0	Thallium_	4.1	<u>U</u>	P_ P_
	7440-62-2	Vanadium	1.9	<u>B</u>	<u>P_ </u>
	7440-66-6	Zinc			P
		Cyanide	4.7	U	CĀ
	l	l	l	_	I
lor Before:	COLORLESS	Clari	ty Before: CLE	AR_	Texture:
lor After:	COLORLESS	Clari	ty After: CLE	AR_	Artifacts:
mments:					
				· · · · · · · · · · · · · · · · · · ·	

FORM I - IN

ILM04.0

EPA SAMPLE NO.

Lab Name: COMPUCHEM Contract: OLM03-REVS

MW18-09

Q

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

COMPOUND

CAS NO.

Matrix: (soil/water) WATER Lab Sample ID: 944468

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044468B57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

74-87-3------Chloromethane 10 U 74-83-9-----Bromomethane\_ 10 U 75-01-4-----Vinyl Chloride 10 U 75-00-3-----Chloroethane 10 U 75-09-2-----Methylene Chloride 4 J 67-64-1-----Acetone 5 JB 75-15-0-----Carbon Disulfide 10 U 75-35-4-----1,1-Dichloroethene 10 U 75-34-3-----1,1-Dichloroethane 10 U 67-66-3-----Chloroform 10 U 107-06-2----1,2-Dichloroethane 10 U 78-93-3----2-Butanone 10 U 71-55-6----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 U 75-27-4-----Bromodichloromethane 10 l U 78-87-5-----1,2-Dichloropropane 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6-----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2----Benzene 10 U 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2-----Bromoform 10 U 108-10-1----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U 127-18-4-----Tetrachloroethene 10 U 79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene 10 U 100-41-4-----Ethylbenzene 10 U 100-42-5-----Styrene 10 U 1330-20-7-----Xylene (Total) 10 U 540-59-0----1,2-Dichloroethene (total) 10 U

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW18-09

Lab	Name:	COMPUCHEM	ı

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944468

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: cn044468b57

Level: (low/med) LOW

Date Received: 06/10/99

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
1.				
2. 3. 4.				
6				
7				
9. 10. 11.				
13.				
15.				
16. 17. 18.				
20.				
21. 22. 23. 24.				
25.				
26				
28. 29. 30.				<del></del>

## 1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW18-09 Contract: OLM03-REVS Name: COMPUCHEM

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944468

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044468A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_\_ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Dilution Factor: 1.0 Injection Volume: 2.0 (uL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATIO CAS NO. COMPOUND (ug/L or ug/		) }
108-95-2Phenol 111-44-4bis(2-Chloroethy1)ether 95-57-82-Chlorophenol 541-73-11,3-Dichlorobenzene 106-46-71,4-Dichlorobenzene 95-50-11,2-Dichlorobenzene 95-48-72-Methy1phenol 108-60-12,2'-oxybis(1-Chloropropane) 106-44-54-Methy1phenol 621-64-7Nitroso-di-n-propylamine 67-72-1Hexachloroethane 98-95-3Nitrobenzene 78-59-11sophorone 88-75-52-Nitrophenol 105-67-92,4-Dimethy1phenol 111-91-1bis(2-Chloroethoxy)methane 120-83-22,4-Dichlorophenol 120-82-11,2,4-Trichlorobenzene 91-20-3Naphthalene 106-47-84-Chloroaniline 87-68-3	10 U U U U U U U U U U U U U U U U U U U	

MW18-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944468

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044468A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: decanted: (Y/N) \_\_\_ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

86-73-7-----Fluorene

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L C

51-28-5------2,4-Dinitrophenol 25 U
100-02-7----4-Nitrophenol 25 U
132-64-9----Dibenzofuran 10 U
121-14-2----2,4-Dinitrotoluene 10 U
84-66-2----Diethylphthalate 10 U
7005-72-3----4-Chlorophenyl-phenylether 10 U

205-99-2-----Benzo (b) fluoranthene\_ 207-08-9-----Benzo (k) fluoranthene\_ 50-32-8------Benzo (a) pyrene\_

193-39-5-----Indeno (1,2,3-cd) pyrene\_ 53-70-3------Dibenzo (a,h) anthracene\_ 191-24-2-----Benzo (g,h,i) perylene\_

(1) - Cannot be separated from Diphenylamine

10 l U 25 I U 25 I U 10 U 10 U 10 U 25 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U

10 U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Name: COMPUCHEM

Contract: OLM03-REVS

MW18-09

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944468

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: GH044468A64

Level: (low/med) LOW

Date Received: 06/10/99

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_

Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 06/22/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 11

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q .
CAS NUMBER  ===================================	UNKNOWN UNKNOWN TRICHLOROPROPENE UNKNOWN SILOXANE UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN	RT 6.43 6.52 6.62 6.85 8.50 9.06 9.75 10.25 18.32 30.63 30.70	2 7 8 24 4 2 6	==== J
27. 28. 29.				

## PESTICIDE ORGANICS ANALYSIS DATA SHEET

Sample wt/vol: 1060 (g/mL) ML

EPA SAMPLE NO.

MW18-09

Lab Name: COMPUCHEM Contract: OLM03-REVS Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944468

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_ Date Received: 06/10/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/12/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_ Sulfur Cleanup: (Y/N) N

> CONCENTRATION UNITS: CAS NO. COMPOUND

(uq/L or uq/Kq) UG/L 0

Lab File ID:

CIB NO.	(ug/ II of ug	,5,, -	~
319-84-6	alpha-BHC	0.047	TT
319-85-7		0.047	
319-86-8	delta-BHC	0.047	
	gamma-BHC (Lindane)	0.047	
76-44-8	Heptachlor	0.047	
309-00-2		0.047	
	Heptachlor epoxide	0.047	
959-98-8	Endosulfan I	0.047	
60-57-1	Dieldrin	0.094	
72-55-9		0.094	
72-20-8		0.094	
33213-65-9	Endosulfan II	0.094	
72-54-8		0.094	
	Endosulfan sulfate	0.094	U
50-29-3	4,4'-DDT	0.094	
72-43-5	Methoxychlor	0.010	JP
53494-70-5	Endrin ketone	0.094	U
7421-93-4	Endrin aldehyde	0.094	U
	alpha-Chlordane	0.047	U
5103-74-2	gamma-Chlordane	0.047	U
8001-35-2		4.7	
	Aroclor-1016	0.94	
	Aroclor-1221	1.9	
	Aroclor-1232	0.94	
	Aroclor-1242	0.94	
	Aroclor-1248	0.94	
	Aroclor-1254	0.94	
11096-82-5	Aroclor-1260	0.94	Ŭ
			l

FORM I PEST

## U.S. EPA - CLP

EDD	SAMPLE	MO
PPA	DAMPLE	INO.

		INORGANIC .	ANALYSES DATA S	SHEET	EPA SAMPLE NO.
		•	~ · ·		MW18-09
b Name: COMP	UCHEM	_	Contract: Il	LM04.0	
b Code: COMP	PU_ Ca	se No.: 34	SAS No.	•	SDG No.: 00002
trix (soil/w	vater): WATE	R .		Lab Samp	le ID: 944468
vel (low/med	LOW_	_		Date Rec	eived: 06/10/99
Solids:	0.	0			
Co	ncentration	Units (ug	/L or mg/kg dry	y weight)	: UG/L
	CAS No.	Analyte	Concentration	C Q	M
	l	l			
	7429-90-5	Aluminum_	13.3	B	P
	7440-36-0	Antimony_	3.3	В	P_
	7440-38-2	Arsenic	1.4		P
	7440-39-3	Barium	28.3	B	P
	7440-41-7	Beryllium			P
	7440-43-9	Cadmium	0.94		P_
•	7440-70-2	Calcium_	61400		P_
	7440-47-3	Chromium_	3.7		P_
	7440-48-4	Cobalt	2.5	B	P_
	7440-50-8	Copper	3.2	B	P_
	7439-89-6	Iron	53.5		P_
	7439-92-1	Lead	1.0	ـــــالتا	P_
	7439-95-4	Magnesium			P_
	7439-96-5	Manganese	61.0		P_
	7439-97-6	Mercury	0.05		CV
	7440-02-0	Nickel	0.50		P_
	7440-09-7	Potassium			P
		Selenium_	1.6		P_
	7440-22-4	Silver	0.40		P_
	7440-23-5		38800		P_
	7440-28-0	Thallium_	2.1		P_
	7440-62-2	Vanadium_	1.1		P
·	7440-66-6	Zinc_ Cyanide	0.40	1 -	P CA
		.			[]_
lor Before:	COLORLESS	Clari	ty Before: CLE	AR_	Texture:
lor After:	COLORLESS	Clari	ty After: CLE	AR_	Artifacts:
mments:					
Duplicate	(MUTO OCT)				
Duplicate_	(MW18-09D)			<del></del>	

FORM I - IN

ACSGWMW19-09

Lab File ID: CN044711B57

Lab Name: COMPUCHEM Contract: OLM03-REVS

·5.0 (g/mL) mL

Sample wt/vol:

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944711

Matrix: (SOII) water hab sample ib. 944/II

Level: (low/med) LOW Date Received: 06/11/99

.

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

74-87-3	Chloromethane	10 U
	Bromomethane	10 U
	Vinyl Chloride	10 0
	Chloroethane	14
	Methylene Chloride	3 J
67-64-1	Agetone	19 B
		l l
75-15-0	Carbon Disulfide	
75-35-4	1,1-Dichloroethene	10 U
75-34-3	1,1-Dichloroethane	10 U
	Chloroform	10 U
	1,2-Dichloroethane	10   U_
	2-Butanone	2 JB
71-55-6	1,1,1-Trichloroethane	10 U
	Carbon Tetrachloride	10 U
	Bromodichloromethane	10 U
78-87-5	1 2-Dichloropropane	10 U
10061-01-5	cis-1,3-Dichloropropene	10 U
	Trichloroethene	10 U
	Dibromochloromethane	10 U
79-00-5	1,1,2-Trichloroethane	10 U
71-43-2	Benzene	7   J
10061-02-6	trans-1,3-Dichloropropene	10 U
75-25-2	Bromoform	10 U
108-10-1	4-Methyl-2-Pentanone	3 JB
591-78-6	2-Hexanone	3 JB
	Tetrachloroethene	10 U
	1,1,2,2-Tetrachloroethane	10 U
108-88-3	Toluene	10 U
108-90-7	Chlorobenzene	10 U
100-41-4	Ethylbenzene	10 U
100-42-5		10 U
	Xylene (Total)	10 U
	1,2-Dichloroethene (total)	10 U
	, ===-,	
		<del></del>

FORM I VOA

#### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Case No.: 34200 SAS No.:

EPA SAMPLE NO.

ab Name: COMPUCHEM Contract: OLM03-REVS

ACSGWMW19-09

Matrix: (soil/water) WATER

AS No.: SDG No.: 00003

Sample wt/vol:

Lab Code: COMPU

5.0 (g/mL) mL

Lab Sample ID: 944711

Bampre we, vor.

3.0 (g/mb)

LOW

Date Received: 06/11/99

Lab File ID: cn044711b57

% Moisture: not dec.

Date Analyzed: 06/24/99

• 110250420. 1100 400. \_\_\_

Number TICs found: 2

\_\_\_\_\_

GC Column: EQUITY624

Level: (low/med)

ID: 0.53 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_(uL

Soil Extract Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

7.57	7 5	ŊJ

ACSGWMW19-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 60003

Matrix: (soil/water) WATER Lab Sample ID: 944711

Sample wt/vol: 950 (g/mL) ML Lab File ID: GH044711A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: decanted: (Y/N) Date Extracted: 06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/21/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

njection volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

108-95-2----Phenol 10 U 111-44-4-----bis(2-Chloroethyl)ether 23 95-57-8----2-Chlorophenol 10 ប៊ 541-73-1----1,3-Dichlorobenzene 10 U 106-46-7----1,4-Dichlorobenzene 10 U 95-50-1----1,2-Dichlorobenzene\_\_\_ 10 U 95-48-7----2-Methylphenol 10 U 108-60-1----2,2'-oxybis(1-Chloropropane) 2 | J 106-44-5-----4-Methylphenol 10 U 621-64-7----N-Nitroso-di-n-propylamine 10 U 67-72-1-----Hexachloroethane\_\_\_\_ 10 U 98-95-3-----Nitrobenzene\_ 10 U 78-59-1-----Isophorone 6 J 88-75-5----2-Nitrophenol 10 U 105-67-9-----2,4-Dimethylphenol 10 U 111-91-1-----bis(2-Chloroethoxy) methane 10 U 120-83-2----2,4-Dichlorophenol 10 U 120-82-1----1,2,4-Trichlorobenzene 10 U 91-20-3-----Naphthalene 10 U 106-47-8-----4-ChloroaniTine 10 U 87-68-3-----Hexachlorobutadiene 10 U 59-50-7----4-Chloro-3-methylphenol 10 U 91-57-6----2-Methylnaphthalene 10 U 77-47-4-----Hexachlorocyclopentadiene 10 U 88-06-2----2,4,6-Trichlorophenol 10 U 95-95-4----2,4,5-Trichlorophenol 26 U 91-58-7----2-Chloronaphthalene 10 U 88-74-4----2-Nitroaniline 26 U 131-11-3-----Dimethylphthalate 10 U 208-96-8------Acenaphthylene 10 U 606-20-2----2,6-Dinitrotoluene\_ 10 IJ 99-09-2----3-Nitroaniline 26 U 83-32-9-----Acenaphthene 10 0

Lab Name: COMPUCHEM Contract: OLM03-REVS ACSGWMW19-09

Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944711

Sample wt/vol: 950 (g/mL) ML Lab File ID: GH044711A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/21/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or	ug/kg)	OG/T	. Q
51-28-5	2,4-Dinitroph	enol		26	ש
100-02-7	4-Nitrophenol			26	
132-64-9	Dibenzofuran		<del></del>	10	
	2,4-Dinitroto	luene			Ū
84-66-2	Diethylphthal	ate			Ū
7005-72-3	4-Chloropheny	l-phenylether	<del>-</del> -		Ū
86-73-7	Fluorene	- F1		10	
	4-Nitroanilin	e		26	
	4,6-Dinitro-2		<del></del>	26	
	N-nitrosodiph				Ū
101-55-3	4-Bromophenyl	-phenylether	′ ——	10	
118-74-1	Hexachloroben	zene			Ü
	Pentachloroph			26	
85-01-8	Phenanthrene			. 10	
120-12-7	Anthracene	•		10	
86-74-8	Carbazole				ΰ
	Di-n-butylpht	halate	<del></del> -		Ū
206-44-0	Fluoranthene				υ
129-00-0					บี
85-68-7	Butvlbenzvlph	thalate			บ็
91-94-1	Butylbenzylph 3,3'-Dichlord	benzidine			ט ט
56-55-3	Benzo(a)anthr	acene	<del></del> -		υ
	Chrysene		<del></del>	10	4
117-81-7	bis(2-Ethylhe	xvl)phthalate	<del>-</del>	16	
117-84-0	Di-n-octylpht	halate	~ <b>~</b>		์   <del>บ</del>
205-99-2	Benzo(b)fluor	anthene			บั
207-08-9	Benzo(k)fluor	anthene			υ
50-32-8	Benzo(a)pyren	ie	<del></del>		ט ט
193-39-5	Indeno(1,2,3-	cd) nyrene	<del></del>		Ü
53-70-3	Dibenzo(a,h)-a	nthracene	<del></del> -		บั
191-24-2	Benzo(g,h,i)p	ervlene	<del></del> [		ט ט
	201120 (9,11,17)		—-	10	΄ Ι ັ
	e separated from D		_	. <u> </u>	_

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW19-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 944711

Sample wt/vol:

950 (g/mL) ML

Lab File ID: GH044711A70

Level: (low/méd)

LOW

Date Received: 06/11/99

% Moisture: \_\_\_\_ decanted: (Y/N)

Date Extracted:06/14/99

Concentrated Extract Volume:

Date Analyzed: 07/21/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: \_\_\_

1000 (uL)

Number TICs found: 29

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
	UNKNOWN	6.91	20	J
1.	UNKNOWN	7.15	20	J
3.	UNKNOWN	7.13	.39	J
4.	UNKNOWN	8.01	46	J
5.	UNKNOWN	8.40	9	J
6.	UNKNOWN	8.52	5	J
7.	UNKNOWN	8.74	5	J
	UNKNOWN	9.09	72	J
8.	UNKNOWN	9.79	9	J
9.	UNKNOWN	9.85	8	J ·
10.	UNKNOWN	10.12	8	J
11.		10.12	39	J
12.	UNKNOWN UNKNOWN	10.31	22	J
13.	UNKNOWN	10.44	40	J
14.	<b>1</b>	3	74	J
15.	UNKNOWN	10.61	15	J
16.	UNKNOWN UNKNOWN			J
17.		11.53	9 5	J
18.	UNKNOWN	11.59		
19.	UNKNOWN	12.18	150	J J
20.	UNKNOWN	12.40	4	
21.	UNKNOWN	12.52	10	J
22.	UNKNOWN	12.62	8	Ţ
23.	UNKNOWN	13.32	15	J
24.	UNKNOWN	13.99	6	J
25.	UNKNOWN	14.16	9	J
26.	UNKNOWN	15.01	20	J
27. 50-06-6	PHENOBARBITAL	15.67	80	ЙЛ
28.	UNKNOWN	16.26	9	J.
29.	UNKNOWN SILOXANE	19.35	20	J
30				
	_		1	

FORM I SV-TIC

OLM03.0

Lab Name: COMPUCHEM Contract: OLM03-REVS ACSGWMW19-09RE Contract: OLM03-REVS SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944711

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GR044711A66

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: decanted: (Y/N) Date Extracted: 07/07/99 المناب المن

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0 2 days

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

		<del></del> ,
: 108-95-2Phenol	10	U
111-44-4bis(2-Chloroethyl)ether	23.	
95-57-82-Chlorophenol	10	
541-73-11,3-Dichlorobenzene	10	Ū
106-46-71,4-Dichlorobenzene	10	_
95-50-11,2-Dichlorobenzene	10	
95-48-72-Methylphenol	10	_
108-60-12,2'-oxybis(1-Chloropropane)	4	
106-44-54-Methylphenol	10	
621-64-7N-Nitroso-di-n-propylamine	10	
67-72-1Hexachloroethane	10	1
98-95-3Nitrobenzene	10	
78-59-1Isophorone	10	-
88-75-52-Nitrophenol	10	
105-67-92,4-Dimethylphenol	10	
111-91-1bis (2-Chloroethoxy) methane	10	
120-83-22,4-Dichlorophenol	10	
120-83-2-32,4-Dichiorophenor	10	
91-20-3Naphthalene		1
	10	1
106-47-84-Chloroaniline	10	1
87-68-3Hexachlorobutadiene	10	_
59-50-74-Chloro-3-methylphenol	10	_
91-57-62-Methylnaphthalene	10	1
77-47-4Hexachlorocyclopentadiene	10	
88-06-22,4,6-Trichlorophenol	10	
95-95-42,4,5-Trichlorophenol	25	
91-58-72-Chloronaphthalene	10	
88-74-42-Nitroaniline	25	
131-11-3Dimethylphthalate	10	U
208-96-8Acenaphthylene	10	U
60€-20-22,6-Dinitrotoluene	. 10	U
99-09-23-Nitroaniline	25	U
83-32-9Acenaphthene	10	U
· · · · · · · · · · · · · · · · · · ·		
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ACSGWMW19-09RE

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 944711

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: GR044711A66

CONCENTRATION UNITS:

Level: (low/med)

LOW

Date Received: 06/11/99

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_

Date Extracted:07/07/99

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 07/09/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW19-09RE

Lab Name: COMPUCHEM

Contract: OLM03-REVS

6 Code: COMPU

Case No.: 34200 SAS No.:

SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 944711

Sample wt/vol:

1000 (g/mL) ML

LOW

Lab File ID: GR044711A66

Level: (low/med)

Date Received: 06/11/99

Date Extracted:07/07/99

% Moisture: decanted: (Y/N)

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 07/09/99

Injection Volume:

2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 29

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
				\====\
1.	UNKNOWN	6.19	11	J
2.	UNKNOWN (BC)	6.22	13	1
3.	UNKNOWN	6.36	9	IJ
4	UNKNOWN	6.54	7	J
5.	UNKNOWN	7.12	43	J
6.	UNKNOWN (BC)	7.38	[ 26	
7.	UNKNOWN	7.87	10	J
8.	UNKNOWN	8.50	10	
9.	UNKNOWN	9.41	20	J
10.	UNKNOWN	9.66	[	J.
11. 485-47-2	NINHYDRIN	9.77	6	NJ
12.	UNKNOWN	10.20	11	J
13.	UNKNOWN	10.40	30	J
14.	UNKNOWN ALCOHOL	10.71	620	J
15.	UNKNOWN	10.78	18	J
16.	UNKNOWN	11.59	74	
17.	UNKNOWN	12.27	36	J
18.	UNKNOWN	12.69	6	J
19.	UNKNOWN	12.90	11	J
20.	UNKNOWN	13.41	. 8	J
21.	UNKNOWN	13.62	14	J
22.	UNKNOWN	14.46	8	J
24.	UNKNOWN	14.64 15.06	18	J
25.	UNKNOWN	15.67	4 64	J
26.	UNKNOWN	15.81	6	J
27.	UNKNOWN	16.74	14	J
28.	UNKNOWN	17.90	10	J
29.	UNKNOWN	18.48		J
30.	Olitaonii	10.40	1	
30				
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## PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM

EPA SAMPLE NO.

ACSGWMW19-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944711

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

decanted: (Y/N) Date Received: 06/11/99 % Moisture:

Date Extracted: 06/15/99 Extraction: (SepF/Cont/Sonc) SEPF

Contract: OLM03-REVS

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

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	J. ,	-
319-84-6alpha-BHC 319-85-7beta-BHC 319-86-8delta-BHC 58-89-9gamma-BHC (Lindane) 76-44-8Heptachlor 309-00-2Aldrin 1024-57-3Heptachlor epoxide 959-98-8Endosulfan I 60-57-1Dieldrin 72-55-9Endrin 33213-65-9Endrin 33213-65-9Endosulfan II 72-54-8	0.0038 0.022 0.0019 0.050 0.050 0.050 0.050 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	JP JP JP JP JP JP JP JP JP JP JP JP JP J
72-43-5Methoxychlor 53494-70-5Endrin ketone 7421-93-4Endrin aldehyde 5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane	0.50 0.10 0.10 0.0053 0.050 5.0 1.0 2.0 1.0 1.0	U U U U U U U U U U U U U U U U U U U

## 1

עכנים	SAMPLE	ATA.
P.PA	SAMPLE	EVI( )

		INORGANIC A	ANALYSES DATA	SHEET	
ab Name: COM	PUCHEM		Contract: I	LM04.0	ACSGWMW19-09
h Codo, COM		GO NO . 34	OOÓ CAC NO		SDG No.: 00003
n code. com	ca.	se NO.: 34.	200_ SAS NO.	•	SDG NO.: 00003
trix (soil/	water): WATE	R		Lab Sampl	le ID: 944711
vel (low/med	d): LOW_	_		Date Rece	eived: 06/11/99
Solids:	0.	0			
Co	oncentration	Units (ug	/L or mg/kg dry	y weight):	UG/L
	CAS No.	Analyte	Concentration	C Q	M
		-		_	
	7429-90-5	Aluminum_	64.6		P P
		Antimony_ Arsenic	1.8		P_
		Barium	764		P .
		Beryllium		<del> </del>	P_
			200.25 OF 50		P-
	7440-43-9	Calcium	84800		P P
	7440-70-2	Chromium	3.6		P P
	7440-47-3	Cobalt	1.4		P
	7440-48-4		2.3		P P
	7439-89-6	Copper	2490		P P
	7439-89-8	Lead	1.0		P P
	7439-95-4	Magnesium			P P
	7439-96-5	Manganese	206	-	P
	7439-96-3	Mercury	0.05	<del> </del>	CV
	1	Nickel	16.2		P
	7440-02-0			B	P P
	7440-09-7	Potassium		l l l	I
•	7782-49-2	Selenium_	3.1		P
	7440-22-4	Silver			P_
	7440-23-5	Sodium	938000		P
	7440-28-0	Thallium_	4.1	[ U ]	P
•	7440-62-2	Vanadium_	0.73	B +	P_
	7440-66-6	Zinc	1		P
		Cyanide	5.1	B	CA
olor Before:	COLORLESS	Clari	ty Before: CLE	AR	Texture:
olor After:	COLORLESS		ty After: CLE	_	Artifacts:
	COLUNIDAD		cy Arter. Chi.	·	AICILACCS:
omments:	·				

MW37-09

Lab Name:	COMPUCHEM	Contract:	OLM03-REVS	111137 0	

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945492

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045492A57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. Date Analyzed: 06/27/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q 10 U 74-87-3-----Chloromethane 74-83-9-----Bromomethane 10 U 75-01-4-----Vinyl Chloride 10 U 75-00-3-----Chloroethane 10 U 75-09-2-----Methylene Chloride 4 | J 67-64-1-----Acetone 5 J 75-15-0-----Carbon Disulfide 10 U 75-35-4----1,1-Dichloroethene 10 U 75-34-3-----1,1-Dichloroethane 10 U 67-66-3------Chloroform 10 U 107-06-2-----1,2-Dichloroethane 10 U 78-93-3----2-Butanone 10 U 71-55-6-----1,1,1-Trichloroethane 10 U 10 U 56-23-5-----Carbon Tetrachloride 75-27-4-----Bromodichloromethane 10 U 78-87-5-----1,2-Dichloropropane\_ 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6-----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2----Benzene 10 U 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2-----Bromoform 10 U 108-10-1----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U 127-18-4-----Tetrachloroethene 10 U 79-34-5----1,1,2,2-Tetrachloroethane 10 U 10 U 108-88-3-----Toluene 108-90-7-----Chlorobenzene 10 U 10 U 100-41-4----Ethylbenzene 10 U 10 ΙU

FORM I VOA

540-59-0----1,2-Dichloroethene (total)

10

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

b Name: COMPUCHEM Contract: OLM03-REVS MW37-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945492

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045492a57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Number TICs found: 0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

				<del></del>
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q ·
=======================================		=======	=========	
1				
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## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW37-09

Lab Name: COMPUCHE A Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945492

Sample wt/vol: 980 (g/mL) ML Lab File ID: GH045492A66

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

111, 0001011 101411101 1014111 1014111 1014111 1014111 1014111 1014111 1014111 1014111 1014111 1014111 101411

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND (ug/II of ug/II	(g) 00/L	×
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
	1,3-Dichlorobenzene	10	Ū
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	Ū
95-48-7 <b></b>	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	Ü
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	Ū
	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
	bis(2-Chloroethoxy)methane	10	Ŭ
120-83-2	2,4-Dichlorophenol	10	U
	1,2,4-Trichlorobenzene	10	U
	Naphthalene	10	
	4-Chloroaniline	10	Ū
	Hexachlorobutadiene	10	
	4-Chloro-3-methylphenol	10	
91-57-6	2-Methylnaphthalene	10	
	Hexachlorocyclopentadiene	. 10	
88-06-2	2,4,6-Trichlorophenol	10	
95-95-4- <b>--</b>	2,4,5-Trichlorophenol	26	
91-58-7	2-Chloronaphthalene	10	
	2-Nitroaniline	26	
131-11-3	Dimethylphthalate	10	L
208-96-8	Acenaphthylene	10	
606-20-2	2,6-Dinitrotoluene	10	l .
	3-Nitroaniline	26	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

OLM03.0

EPA SAMPLE NO.

MW37-09

Contract: OLM03-REVS ab Name: COMPTCHEM

SDG No.: 00005 Lab Code: COMPU Case No.: 34200 SAS No.:

Matrix: (soil/water) WATER Lab Sample ID: 945492

Lab File ID: Sample wt/vol: 980 (g/mL) ML GH045492A66

Date Received: 06/15/99 Level: (low/med) LOW

% Moisture: decanted: (Y/N) Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH:

> CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0

26 U 51-28-5----2,4-Dinitrophenol 100-02-7----4-Nitrophenol 26 U 10 U 132-64-9-----Dibenzofuran 121-14-2-----2,4-Dinitrotoluene 10 U 84-66-2-----Diethylphthalate 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 10 U 100-01-6----4-Nitroaniline 26 I U 534-52-1----4,6-Dinitro-2-methylphenol 26 U 10 U 86-30-6----N-nitrosodiphenylamine (1) 101-55-3-----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 U 87-86-5----Pentachlorophenol 26 U 10 U 85-01-8-----Phenanthrene 120-12-7-----Anthracene 10 U 86-74-8-----Carbazole 10 U 84-74-2-----Di-n-butyIphthalate 10 U 206-44-0----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1----3,37-Dichlorobenzidine 10 U 56-55-3-----Benzo(a) anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 10 U 117-84-0-----Di-n-octylphthalate 10 U 205-99-2----Benzo (b) fluoranthene 10 | U 207-08-9-----Benzo(k) fluoranthene 10 U 50-32-8-----Benzo(a) pyrene 10 U 10 U 10 U 191-24-2----Benzo(g,h,i)perylene 10 U (1) - Cannot be separated from Diphenylamine

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW	3	7	_	0	q
T.YAA	_	•		v	J

Lab Name:	COMPUCHEM	Contract:	OLM03-REVS	MW37-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945492

Sample wt/vol: 980 (g/mL) ML Lab File ID: GH045492A66

Level: (low/med) LOW Date Received: 06/15/99

decanted: (Y/N) Date Extracted:06/17/99 % Moisture:

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

pH: \_

GPC Cleanup: (Y/N) N

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
3		-		
5				
6. 7. 8.		-		
9:		-		
10.				
12.				
14.				
17.				
18. 19. 20.				
21.				
22.				
24. 25. 26.		-		<u>·</u>
27.				
28. 29. 30.				
_				

FORM I SV-TIC

OLM03.0

MW37-09 Name: COMPUCHEM Contract: OLM03-REVS Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005 Matrix: (soil/water) WATER Lab Sample ID: 945492 Sample wt/vol: 1050 (g/mL) ML Lab File ID: % Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_\_ Date Received: 06/15/99 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99 Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) N pH: \_\_\_ CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 319-84-6----alpha-BHC 0.048 U 319-85-7-----beta-BHC 0.019 J 319-86-8-----delta-BHC 0.048 U 58-89-9-----gamma-BHC (Lindane) 0.048 U 76-44-8-----Heptachlor 0.048 U 309-00-2-----Aldrin 0.048 U 1024-57-3-----Heptachlor epoxide 0.048 U 959-98-8-----Endosulfan I 0.048 U 60-57-1-----Dieldrin 0.095 U 72-55-9-----4,4'-DDE 0.095 U 72-20-8-----Endrin 0.095 U 33213-65-9-----Endosulfan II 0.095 U 72-54-8-----4,4'-DDD 0.095 U 1031-07-8----Endosulfan sulfate 0.095 U 50-29-3-----4,4'-DDT 0.095 U 72-43-5-----Methoxychlor 0.48 U 53494-70-5----Endrin ketone 0.095 U 7421-93-4-----Endrin aldehyde 0.095 U 5103-71-9-----alpha-Chlordane\_ 0.048 U 5103-74-2----gamma-Chlordane 0.048 U 8001-35-2-----Toxaphene 4.8 U 12674-11-2----Aroclor-1016 0.95 U

11104-28-2----Aroclor-1221

11141-16-5-----Aroclor-1232

53469-21-9----Aroclor-1242

12672-29-6----Aroclor-1248

11097-69-1-----Aroclor-1254

11096-82-5----Aroclor-1260

1.9 U

0.95 U

0.95 U

0.95 U

U

U

0.951

0.95

### U.S. EPA - CLP

#### 1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

b Name: COMP	UCHEM		Contract: II	JM(	04.0	MW37-09
b Code: COMP	U_ Ca	se No.: 342	200_ SAS No.	: _		SDG No.: 00005_
trix (soil/w	ater): WATE	R		Lá	ab Sampi	le ID: 945492
vel (low/med	): LOW_			Da	ate Rece	eived: 06/15/99
Solids:	0.	0				
Co	ncentration	Units (ug,	/L or mg/kg dry	/ V	weight)	: UG/L
	CAS No.	Analyte	Concentration	С	Q	М
	7429-90-5	Aluminum	388			P
	7440-36-0	Antimony_	1.8	$\overline{\overline{U}}$		P
	7440-38-2	Arsenic	2.0			P
	7440-39-3	Barium	24.2	В		P
	7440-41-7	Beryllium	0.37			P
		Cadmium	0.50	U		P
	7440-70-2	Calcium	74400	=	<del></del>	P_
	7440-47-3	Chromium_	3.7	B		P_
		Cobalt  Copper	0.99			P
	7440-50-8 7439-89-6	Iron	4870	Б		P
	7439-83-6	Lead	1.3	급	<del></del>	P P
	7439-95-4	Magnesium		-		P
	l .	Manganese	330	-		P
•		Mercury	0.05	บี		$ C\overline{V} $
•		Nickel	8.2			P
	7440-09-7	Potassium	1120	В		P_
•		Selenium_	3.1			P
		Silver	0.30	U		P
		Sodium	15200	==	_ <del></del>	P_
		Thallium_	4.1		<del></del>	P_
	7440-62-2	Vanadium_	1.7	l .		P_ P_
	7440-66-6	Zinc Cyanide	2.7		ļ ———	P CA
		Cyanitae				
lor Before:	COLORLESS	Clari	ty Before: CLE	AR_	_	Texture:
lor After:	COLORLESS	Clari	ty After: CLE	AR_	_	Artifacts:
mments:		-				
		<u></u>				

FORM I - IN

ILM04.0

MW38-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944496

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044496B57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL)

74-87-3Chloromethane       10 U         74-83-9Bromomethane       10 U         75-01-4Vinyl Chloride       10 U         75-00-3

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW38-09

Lab Name:	COMPUCHEM
-----------	-----------

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944496

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: cn044496b57

Level: (low/med) LOW

Date Received: 06/10/99

% Moisture: not dec. \_\_\_\_\_

GC Column: EQUITY624 ID: 0.53 (mm)

Date Analyzed: 06/23/99 Dilution Factor: 1.0

Soil Extract Volume: \_\_\_(uL)

Number TICs found: 0

Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
1				<del></del>
4.				
6				
7. 8. 9.				
11.				
12. 13. 14.				
16.				
17. 18. 19.				
21.				
23.				
24				
28.				
29				

MW38-09
b Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944496

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044496A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

MW38-09 Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case, No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944496

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044496A64

Date Received: 06/10/99 Level: (low/med) LOW

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: COMPOUND CAS NO. (ug/L or ug/Kg) UG/L

1		1	
51-28-5	-2,4-Dinitrophenol		25 U
100-02-7			25 U
	-Dibenzofuran		10 U
121-14-2	-2,4-Dinitrotoluene		10 0
	-Diethylphthalate		- 10 U
7005-72-3	-4-Chlorophenyl-phenylether_		10 U
86-73-7	-Fluorene	·	10 U
100-01-6	-4-Nitroaniline		25 บั
	-4,6-Dinitro-2-methylphenol	·	25 U
	-N-nitrosodiphenylamine (1)		10 0
101-55-3	-4-Bromophenyl-phenylether		10 U
119-74-1	-Hexachlorobenzene		10 0
	-Pentachlorophenol		25 U
85-01-8			10 U
120-12-7			l l
86-74-8			
			10 U
	-Di-n-butylphthalate		10 U
206-44-0			10 0
129-00-0		1 :	10 U
85-68-7	-Butylbenzylphthalate		10 ប
91-94-1	-3,3'-Dichlorobenzidine	•	10 U
56-55-3	-Benzo(a) anthracene		10   U
218-01-9			10 U
	<pre>-bis(2-Ethylhexyl)phthalate</pre>		11
117-84-0	-Di-n-octylphthalate		10 U
205-99-2	-Benzo(b)fluoranthene		10 U
	-Benzo(k) fluoranthene		10 U
50-32-8	-Benzo(a)pyrene	•	10 U
193-39-5	-Indeno(1,2,3-cd)pyrene		10 U
53-70-3	-Dibenzo(a,h)anthracene		10 U
191-24-2	-Benzo(g,h,i)perylene		10 U
			_   _
(1) - Cannot be se	parated from Diphenylamine	· + <del> </del>	

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW38-09

ab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944496

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044496A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: decanted: (Y/N) Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

CONCENTRATION UNITS: Number TICs found: 18 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	0
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 85-44-9 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.	UNKNOWN TRICHLOROPROPENE UNKNOWN SILOXANE UNKNOWN SILOXANE UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN PHTHALIC ANHYDRIDE UNKNOWN UNKNOWN SILOXANE UNKNOWN SILOXANE UNKNOWN SILOXANE UNKNOWN ACID ESTER UNKNOWN UNKNOWN ACID ESTER UNKNOWN	6.53 6.62 6.86 6.94 8.50 9.18 9.40 9.53 9.76 10.14 10.26 10.51 10.56 11.22 12.33 15.00 16.24 19.39	3 42 3 6 3 22 32 57 3 22 32 57	2 3 3 3 3 3 3 3 3 3 3 3 3 3

FORM I SV-TIC

Sample wt/vol:

MW38-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab File ID:

Case No.: 34200 SAS No.: Lab Code: COMPU SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944496

1030 (g/mL) ML

decanted: (Y/N)\_\_\_ % Moisture: Date Received: 06/10/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/12/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

## U.S. EPA - CLP

EPA	SAMPLE	NO.

		INORGANIC ANALYSES DATA SHEET					
Lab Name: COM	PUCHEM		MW38-09				
ab Code: COM	PU_ Ca	se No.: 34.	ZUU_ SAS NO.		SDG No.: 00002_		
Matrix (soil/	water): WATE	R		Lab Samp	ole ID: 944496		
Level (low/me	d): LOW_	-		Date Rec	eived: 06/10/99		
Solids:	0.	0					
C	oncentration	Units (ug,	/L or mg/kg dry	weight)	: UG/L		
		_			T-1		
	CAS No.	Analyte	Concentration	C Q	M		
	7429-90-5	Aluminum	68.4	$\left  \frac{1}{B} \right $	-   <del>P  </del>		
	7440-36-0	Antimony	1.3		-   _ P -		
	7440-38-2	Arsenic	1.4		-  _P_		
	7440-39-3	Barium —	33.0		P		
		Beryllium			P_		
	7440-43-9	Cadmium	0.45		P		
	7440-70-2	Calcium	58500		[P ]		
	7440-47-3	Chromium	2.3	$\overline{B}$	[P_		
	7440-48-4	Cobalt	5.4	В	P		
	7440-50-8	Copper	13.4	В	P_		
	7439-89-6	Iron	2960		[ P_		
	7439-92-1	Lead	1.3	В	[P_		
	7439-95-4	Magnesium			P_		
	7439-96-5	Manganese			P_		
	7439-97-6	Mercury	0.05				
	7440-02-0	Nickel	11.7		_  P_		
		Potassium			P_   P_		
	7782-49-2	Selenium_	1.6		_  P		
	7440-22-4	Silver	0.40	ען	P_		
	7440-23-5	Sodium	7020	_ _	-   -   -   -   -   -   -   -   -   -		
	7440-28-0	Thallium_	2.1		_   P		
	7440-62-2	Vanadium_	2.9	B	_  P_		
	7440-66-6	Zinc	21.0	<del></del>	_ P		
		Cyanide	4.7	Ū	CA		
Color Before:	COLORLESS	Clari	ty Before: CLE	AR_	Texture:		
Color After:	COLORLESS	Clari	ty After: CLE	AR_	Artifacts:		
Comments:							
	· · · · · · · · · · · · · · · · · · ·						
				·			

FORM I - IN

ILM04.0

### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW39-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944515

Sample wt/vol: 5.0 (g/mL) mLLab File ID: CN044515B57

Level: (low/med) LOW Date Received: 06/10/99

Date Analyzed: 06/23/99 % Moisture: not dec. \_\_\_\_\_

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_(uL) Soil Extract Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

74-87-3	CAS NO.	COMPOUND (ug/II OI	ug/kg/ ug/h	Q
74-83-9	74-87-3	Chloromethane		10 U
75-01-4			<del></del> }	
75-00-3			<del></del>	
75-09-2	75-00-3	Chloroethane	<del></del>	· 1
67-64-1	75-09-2	Methylene Chloride		
75-15-0Carbon Disulfide       10 U         75-35-41,1-Dichloroethene       10 U         75-34-31,1-Dichloroethane       10 U         67-66-3Chloroform       10 U         107-06-21,2-Dichloroethane       10 U         78-93-32-Butanone       10 U         71-55-61,1,1-Trichloroethane       10 U         75-27-4Bromodichloromethane       10 U         75-27-4Bromodichloromethane       10 U         75-27-4Bromodichloromethane       10 U         79-01-6Trichloroethene       10 U         10061-01-5cis-1,3-Dichloropropene       10 U         79-01-6Trichloroethene       10 U         10-43-2Benzene       2 J         10061-02-6trans-1,3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         107-18-4Tetrachloroethene       10 U         108-88-3Toluene       10 U         108-88-3Thylene       10 U         100-41-4Ethylbenzene       10 U         100-42-5	67-64-1	Acetone		4 JB
75-35-41,1-Dichloroethene       10       U         75-34-31,1-Dichloroethane       10       U         67-66-3Chloroform       10       U         107-06-21,2-Dichloroethane       10       U         78-93-32-Butanone       10       U         71-55-61,1,1-Trichloroethane       10       U         56-23-5Carbon Tetrachloride       10       U         75-27-4Bromodichloromethane       10       U         78-87-51,2-Dichloropropane       10       U         10061-01-5cis-1,3-Dichloropropene       10       U         79-01-6Trichloroethane       10       U         79-01-6Trichloroethane       10       U         124-48-1Benzene       10       U         10061-02-61,1,2-Trichloroethane       10       U         79-03-5			<del></del>   .	
75-34-31,1-Dichloroethane       10 U         67-66-3Chloroform       10 U         107-06-21,2-Dichloroethane       10 U         78-93-32-Butanone       10 U         71-55-61,1,1-Trichloroethane       10 U         56-23-5Carbon Tetrachloride       10 U         75-27-4Bromodichloromethane       10 U         78-87-51,2-Dichloropropane       10 U         10061-01-5cis-1,3-Dichloropropene       10 U         79-01-6Trichloroethane       10 U         124-48-1Dibromochloromethane       10 U         124-48-1Benzene       2 J         10061-02-6Bromoform       10 U         105-25-2				
67-66-3				
107-06-21, 2-Dichloroethane       10       U         78-93-32-Butanone       10       U         71-55-61, 1, 1-Trichloroethane       10       U         56-23-5Carbon Tetrachloride       10       U         75-27-4Bromodichloromethane       10       U         78-87-51, 2-Dichloropropane       10       U         10061-01-5cis-1, 3-Dichloropropene       10       U         79-01-6Trichloroethane       10       U         124-48-1Dibromochloromethane       10       U         79-00-51, 1, 2-Trichloroethane       10       U         71-43-2Benzene       2       J         10061-02-6trans-1, 3-Dichloropropene       10       U         75-25-2Bromoform       10       U         108-10-1				
78-93-32-Butanone       10 U         71-55-61,1,1-Trichloroethane       10 U         56-23-5Carbon Tetrachloride       10 U         75-27-4Bromodichloromethane       10 U         78-87-51,2-Dichloropropane       10 U         10061-01-5cis-1,3-Dichloropropene       10 U         79-01-6Trichloroethene       10 U         124-48-1Dibromochloromethane       10 U         79-00-51,1,2-Trichloroethane       10 U         71-43-2Benzene       2 J         10061-02-6trans-1,3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         108-88-3Toluene       10 U         108-90-7Chlorobenzene       10 U         100-42-5Styrene       10 U         1330-20-7Xylene       10 U	107-06-2	1,2-Dichloroethane		
71-55-61,1,1-Trichloroethane       10       U         56-23-5Carbon Tetrachloride       10       U         75-27-4Bromodichloromethane       10       U         78-87-51,2-Dichloropropane       10       U         10061-01-5cis-1,3-Dichloropropene       10       U         79-01-6Trichloroethene       10       U         124-48-1Dibromochloromethane       10       U         79-00-51,1,2-Trichloroethane       10       U         71-43-2Benzene       2       J         10061-02-6trans-1,3-Dichloropropene       10       U         75-25-2Bromoform       10       U         108-10-14-Methyl-2-Pentanone       10       U         591-78-62-Hexanone       10       U         127-18-4Tetrachloroethene       10       U         79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         100-41-4Ethylbenzene       10       U         100-42-5Styrene       10       U         1330-20-7Xylene       (Total)       1				
56-23-5Carbon Tetrachloride       10 U         75-27-4Bromodichloromethane       10 U         78-87-51, 2-Dichloropropane       10 U         10061-01-5cis-1, 3-Dichloropropene       10 U         79-01-6Trichloroethene       10 U         124-48-1Dibromochloromethane       10 U         79-00-51, 1, 2-Trichloroethane       10 U         71-43-2Benzene       2 J         10061-02-6trans-1, 3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         79-34-5Toluene       10 U         108-88-3Toluene       10 U         100-41-4Ethylbenzene       1 U         100-42-5	71-55-6	1,1,1-Trichloroethane		
75-27-4Bromodichloromethane       10 U         78-87-51,2-Dichloropropane       10 U         10061-01-5cis-1,3-Dichloropropene       10 U         79-01-6Trichloroethene       10 U         124-48-1Dibromochloromethane       10 U         79-00-51,1,2-Trichloroethane       10 U         71-43-2Benzene       2 J         10061-02-6trans-1,3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         127-18-4Tetrachloroethene       10 U         108-88-3Toluene       10 U         108-90-7Chlorobenzene       10 U         100-41-4Ethylbenzene       1 U         100-42-5	56-23-5	Carbon Tetrachloride		1
78-87-51, 2-Dichloropropane       10         10061-01-5cis-1, 3-Dichloropropene       10         79-01-6Trichloroethene       10         124-48-1Dibromochloromethane       10         79-00-51, 1, 2-Trichloroethane       10         71-43-2Benzene       2         10061-02-6trans-1, 3-Dichloropropene       10         75-25-2Bromoform       10         108-10-14-Methyl-2-Pentanone       10         591-78-62-Hexanone       10         127-18-4Tetrachloroethene       10         79-34-51, 1, 2, 2-Tetrachloroethane       10         108-88-3Toluene       10         108-90-7Chlorobenzene       10         100-41-4Ethylbenzene       1         100-42-5	75-27-4	Bromodichloromethane		10 U
79-01-6Trichloroethene       10 U         124-48-1Dibromochloromethane       10 U         79-00-51,1,2-Trichloroethane       10 U         71-43-2Benzene       2 J         10061-02-6trans-1,3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         79-34-51,1,2,2-Tetrachloroethane       10 U         108-88-3Chlorobenzene       10 U         100-41-4Ethylbenzene       1 J         100-42-5Styrene       10 U         1330-20-7Xylene       1 J	78-87-5	1,2-Dichloropropane		10 U
79-01-6Trichloroethene       10 U         124-48-1Dibromochloromethane       10 U         79-00-51,1,2-Trichloroethane       10 U         71-43-2Benzene       2 J         10061-02-6trans-1,3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         79-34-51,1,2,2-Tetrachloroethane       10 U         108-88-3Chlorobenzene       10 U         100-41-4Ethylbenzene       1 J         100-42-5Styrene       10 U         1330-20-7Xylene       1 J	10061-01-5	cis-1,3-Dichloropropene		10 U
79-00-51,1,2-Trichloroethane       10       U         71-43-2Benzene       2       J         10061-02-6trans-1,3-Dichloropropene       10       U         75-25-2Bromoform       10       U         108-10-14-Methyl-2-Pentanone       10       U         591-78-62-Hexanone       10       U         127-18-4Tetrachloroethene       10       U         79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         108-90-7Chlorobenzene       10       U         100-41-4Ethylbenzene       1       J         100-42-5	79-01-6	Trichloroethene		10 ប
71-43-2Benzene       2 J         10061-02-6trans-1,3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         79-34-51,1,2,2-Tetrachloroethane       10 U         108-88-3Toluene       10 U         108-90-7Chlorobenzene       10 U         100-41-4Ethylbenzene       1 J         100-42-5Styrene       10 U         1330-20-7Xylene (Total)       1 J	124-48-1	Dibromochloromethane		10 ไป
10061-02-6trans-1,3-Dichloropropene       10         75-25-2Bromoform       10         108-10-14-Methyl-2-Pentanone       10         591-78-62-Hexanone       10         127-18-4Tetrachloroethene       10         79-34-51,1,2,2-Tetrachloroethane       10         108-88-3Toluene       10         108-90-7Chlorobenzene       10         100-41-4Ethylbenzene       1         100-42-5Styrene       10         1330-20-7	79-00-5	1,1,2-Trichloroethane		10 U
75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         79-34-51,1,2,2-Tetrachloroethane       10 U         108-88-3Toluene       10 U         108-90-7Chlorobenzene       10 U         100-41-4Ethylbenzene       1 J         100-42-5Styrene       10 U         1330-20-7Xylene (Total)       1 J	71-43-2	Benzene		2 J
108-10-14-Methyl-2-Pentanone       10       U         591-78-62-Hexanone       10       U         127-18-4Tetrachloroethene       10       U         79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         108-90-7Chlorobenzene       10       U         100-41-4Ethylbenzene       1       J         100-42-5Styrene       10       U         1330-20-7Xylene       (Total)       1				10 U
591-78-62-Hexanone       10       U         127-18-4Tetrachloroethene       10       U         79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         108-90-7Chlorobenzene       10       U         100-41-4Ethylbenzene       1       J         100-42-5Styrene       10       U         1330-20-7Xylene       Total)       1				10 U
127-18-4Tetrachloroethene       10       U         79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         108-90-7Chlorobenzene       10       U         100-41-4Ethylbenzene       1       J         100-42-5Styrene       10       U         1330-20-7Xylene       1       J				10 U
79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         108-90-7Chlorobenzene       10       U         100-41-4Ethylbenzene       1       J         100-42-5Styrene       10       U         1330-20-7Xylene       1       J				
108-88-3Toluene       10 U         108-90-7Chlorobenzene       10 U         100-41-4Ethylbenzene       1 J         100-42-5Styrene       10 U         1330-20-7Xylene (Total)       1 J				10 U
108-90-7Chlorobenzene       10 U         100-41-4Ethylbenzene       1 J         100-42-5Styrene       10 U         1330-20-7Xylene (Total)       1 J				10 U
100-41-4Ethylbenzene       1 J         100-42-5Styrene       10 U         1330-20-7Xylene (Total)       1 J				10 U
100-42-5Styrene 10 U 1330-20-7Xylene (Total) 1 J				10   U
1330-20-7Xylene (Total) 1 J	100-41-4	Ethylbenzene		-1-
1330-20-7Xylene (Total) 1 J 540-59-01,2-Dichloroethene (total) 2 J				ı
540-59-01,2-Dichloroethene (total) 2 J	1330-20-7	Xylene (Total)		li l
	540-59-0	1,2-Dichloroethene (total)		2 J

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW39-09 Contract: OLM03-REVS

Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944515

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: cn044515b57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec.

Date Analyzed: 06/23/99

Number TICs found: 0

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_(uL)

Soil Extract Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
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.MW39-09

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944515

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044515A64

Date Received: 06/10/99 Level: (low/med) LOW:

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

2.0(uL) Dilution Factor: 1.0 Injection Volume:

GPC Cleanup: (Y/N) N pH: \_\_\_

Lab Name: COMPUCHEM

CAS NO.	CONCENTRATION (ug/L or ug/L)		Q
108-95-2 111-44-4 95-57-8 541-73-1 95-50-1 95-48-7 108-60-1 106-44-5 621-64-7 98-95-3 98-95-3 105-67-9 111-91-1 120-83-2 120-82-1 120-82-1 91-20-3 106-47-8 91-57-6 91-57-6 91-57-6 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7	-Phenol -bis(2-Chloroethyl)ether -2-Chlorophenol -1,3-Dichlorobenzene -1,4-Dichlorobenzene -1,2-Dichlorobenzene -2-Methylphenol -2,2'-oxybis(1-Chloropropane) -4-Methylphenol -N-Nitroso-di-n-propylamine -Hexachloroethane -Nitrobenzene -Isophorone -2-Nitrophenol -2,4-Dimethylphenol -bis(2-Chloroethoxy)methane -2,4-Dichlorophenol -1,2,4-Trichlorobenzene -Naphthalene -4-Chloroaniline -Hexachlorobutadiene -4-Chloro-3-methylphenol -2-Methylnaphthalene -2,4,6-Trichlorophenol -2,4,5-Trichlorophenol -2,4,5-Trichlorophenol -2-Chloronaphthalene -2-Nitroaniline -Dimethylphthalate -Acenaphthylene -2,6-Dinitrotoluene -3-Nitroaniline	10 10 10 10 10 10 10 10 10 10 10 10 10 1	מממממממממממממממממממממממממ
83-32-9	Acenaphenene	10	Ŭ

FORM I SV-1

OLM03.0

MW39-09 Contract: OLM03-REVS b Name: COMPUCHEM Case No.: 34200 SAS No.: SDG No.: 00002 Lab Code: COMPU Matrix: (soil/water) WATER Lab Sample ID: 944515 1000 (g/mL) ML Sample wt/vol: Lab File ID: GH044515A64 Date Received: 06/10/99 (low/med) Level: LOW % Moisture: decanted: (Y/N) Date Extracted:06/11/99 Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99 Dilution Factor: 1.0 Injection Volume: 2.0(uL) GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) UG/L CAS NO. 51-28-5-----2,4-Dinitrophenol 25 U 100-02-7----4-Nitrophenol 25 U 132-64-9------Dibenzofuran 121-14-2------2,4-Dinitrotoluene 84-66-2------Diethylphthalate 10 U .10 U 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 10 U 25 U 100-01-6----4-Nitroaniline 25 U 534-52-1----4,6-Dinitro-2-methylphenol 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 U 87-86-5-----Pentachlorophenol 25 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene\_ 10 0 86-74-8-----Carbazole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 0 91-94-1----3,3'-Dichlorobenzidine 10 U 56-55-3-----Benzo(a) anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 10 U 117-84-0------Di-n-octylphthalate\_ 205-99-2-----Benzo(b) fluoranthene 10 U 10 U 207-08-9-----Bénzo(k) fluoranthene 10 U 50-32-8------Benzo (a) pyrene 193-39-5------Indeno (1,2,3-cd) pyrene 53-70-3------Dibenzo (a,h) anthracene 10 U 10 U 10 U 191-24-2----Benzo(g,h,i)perylene 10 U

FORM I SV-2

(1) - Cannot be separated from Diphenylamine

OLM03.0

#### 1F SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW39-09

Lab Name: COMPUCHEM	Contrac	ct: OLM03-REVS
Lab Code: COMPU	Case No.: 34200 SAS No	SDG No.: 00002
Matrix: (soil/water)	WATER	Lab Sample ID: 944515
Sample wt/vol:	1000 (g/mL) ML	Lab File ID: GH044515A64
Level: (low/med)	TOM	Date Received: 06/10/99
% Moisture:	decanted: (Y/N)	Date Extracted:06/11/99
Concentrated Extract	Volume: 1000(uL)	Date Analyzed: 06/22/99
Injection Volume:	2.0 (uL)	Dilution Factor: 1.0
the state of the s		

GPC Cleanup: (Y/N) N pH: \_

CONCENTRATION UNITS:
Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2.	UNKNOWN	14.68	5	==== J
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FORM I SV-TIC

MW39-09

0

SDG No.: 00002

I Name: COMPUCHEM contract: OLM03-REVS

Code: COMPU Case No.: 34200 SAS No.: Matrix: (soil/water) WATER Lab Sample ID: 944515

Sample wt/vol: 1080 (g/mL) ML Lab File ID:

% Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_ Date Received: 06/10/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/12/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND

319-84-6-----alpha-BHC\_\_\_\_\_ 0.046 U 319-85-7-----beta-BHC\_\_\_\_\_ 0.046 U 319-86-8-----delta-BHC (Lindane) \_\_\_\_\_ 0.046 U 0.046 U 0.046 U 309-00-2-----Aldrin 0.046 U 1024-57-3-----Heptachlor epoxide 0.046 U 959-98-8-----Endosulfan I 0.046 U 60-57-1-----Dieldrin 0.092 U 72-55-9-----4,4'-DDE 0.092 U 72-20-8-----Endrin 0.092 U 33213-65-9-----Endosulfan II 0.092 U 72-54-8-----4,4'-DDD 0.092 U 1031-07-8-----Endosulfan sulfate 0.092 U 50-29-3-----4,4'-DDT 0.092 U 72-43-5-----Methoxychlor\_ 0.46 U 53494-70-5----Endrin ketone 0.092 U 7421-93-4----Endrin aldehyde 0.092 U 5103-71-9-----alpha-Chlordane 0.046 U 0.046 | U 5103-74-2----gamma-Chlordane 8001-35-2-----Toxaphene 4.6 U 12674-11-2-----Aroclor-1016 0.92 U 11104-28-2-----Aroclor-1221 1.8 U 11141-16-5-----Aroclor-1232 0.92 U 53469-21-9-----Aroclor-1242 0.92 U 0.92 U 12672-29-6----Aroclor-1248 11097-69-1----Aroclor-1254 0.92 U 11096-82-5----Aroclor-1260 0.92 U

### 1 INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO.

b Name: COMF	TICHEM		Contract: I	I.MO4	0	MW3	9-09
	<u></u>						
o Code: COMP	'U_ Ca	se No.: 343	SAS No.	:		SDG 1	No.: 00002
rix (soil/w	ater): WATE	R		Lab	Sampl	e ID:	944515
rel (low/med	): LOW_	_		Date	Rece	ived:	06/10/99
Solids:	0.	0					
Co	ncentration	Units (ua	/L or mg/kg dry	v wei	aht.) :	ug/L	
	1	1	T	, <u> </u>		<sub>1</sub>	<del></del>
	CAS No.	Analyte	Concentration	С	Q	м	
	7429-90-5	Aluminum	25.0	$\left  {B} \right $ —	- <del></del>  ·	P	
	7440-36-0	Antimony	1.0			P-	
	7440-38-2	Arsenic	1.4			P .	
	7440-39-3	Barium	77.3	В		P	,
	7440-41-7	Beryllium	0.12	В		P_	
	7440-43-9	Cadmium	0.74			P_	
	7440-70-2	Calcium	103000	]		P	
	7440-47-3	Chromium	0.83			P	٠
	7440-48-4	Cobalt	1.2			P_	
	7440-50-8	Copper	0.63			$_{\mathrm{P}}^{-}$	
	7439-89-6	Iron	6640			P_	
	7439-92-1	Lead	1.0			P	
	7439-95-4	Magnesium	18700			P_	
	7439-96-5	Manganese	714			P	
	7439-97-6	Mercury	0.05			C∇	•
	7440-02-0	Nickel	0.50			P	
	7440-09-7	Potassium	5280		E	P	•
	7782-49-2	Selenium	1.6			P	
	7440-22-4	Silver	0.40			P_	
	7440-23-5	Sodium	154000			P_	•
	7440-28-0	Thallium	2.1			P_	
•	7440-62-2	Vanadium	0.48	$ _{B} ^{}$		P_ P_	
	7440-66-6	Zinc	0.40			P	
		Cyanide	4.7	· · · —		CĀ	
lor Before:	COLORLESS	Clari	ty Before: CLE	7 B	\	! Textu:	re.
			-	_			
lor After:	COLORLESS	Clari	ty After: CLE	AR_		Artif	acts:
mments:							

FORM I - IN

ILM04.0

EPA SAMPLE NO.

MW40-09 b Name: COMPUCHEM Contract: OLM03-REVS Lab Code: COMPU SDG No.: 00002 Case No.: 34200 SAS No.: Matrix: (soil/water) WATER Lab Sample ID: 944518 Sample wt/vol: 5.0 (q/mL) mLLab File ID: CN044518B57 Level: (low/med) Date Received: 06/10/99 LOW % Moisture: not dec. Date Analyzed: 06/23/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: \_\_\_\_(uL Soil Extract Volume: \_\_\_\_(uL)

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q 75-01-4-----Vinyl Chloride 10 U 75-00-3------Chloroethane 10 | U 75-35-4----1,1-Dichloroethene 10 U 71-55-6----1,1,1-Trichloroethane 10 U 79-01-6-----Trichloroethene 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2-----Benzene 10 IJ 127-18-4----Tetrachloroethene 10 U 156-60-5----trans-1,2-Dichloroethene 10 U 156-59-2----cis-1,2-Dichloroethene 10 U

CONCENTRATION UNITS:

### 1 INORGANIC ANALYSES DATA SHEET

Lab Name: COME	PUCHEM		Contract: I	LMO	4.0_	ACSGWMW40-09
Lab Code: COME	PU_ Ca	se No.: 34	200_ SAS No.	: _		SDG No.: 00002_
Matrix (soil/w	water): WATE	R		La	b Sampl	e ID: 944518
Level (low/med	l): LOW_	<del></del>		Da	te Rece	ived: 06/10/99
s Solids:	0.	0			,	
Co	oncentration	Units (ug,	/L or mg/kg dr	y w	eight):	UG/L
	CAS No.	Analyte	Concentration	С	Q	M
	7439-97-6 7440-02-0 7440-09-7 7782-49-2 7440-22-4	Selenium_				NR P_ NR NR NR NR NR NR NR NR NR NR NR NR NR
Color Before:	COLORLESS	Clari	ty Before: CLE	AR_	-	Texture:
Color After:	COLORLESS	Clari	ty After: CLE	AR_	-	Artifacts:
Comments:						

FORM I - IN

ILM04.0

ACSGWMW41-09

Lab File ID: CR044739B57

Lab Name: COMPUCHEM Contract: OLM03-REVS

Sample wt/vol: 5.0 (g/mL) mL

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944739

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

CAS NO.	COMPOUND (ug/11 of ug		~
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	
75-01-4	Vinyl Chloride	10	
75-00-3	Chloroethane	10	ן טן
75-09-2	Methylene Chloride		Ĵ
67-64-1	Acetone	10	ן ט
75-15-0	Carbon Disulfide	10	ប
	1,1-Dichloroethene	10	[บ
	1,1-Dichloroethane	10	U .
	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	[ 10	U
	Bromodichloromethane	10	U
	1,2-Dichloropropane	[] 10	U
10061-01-5	cis-1,3-Dichloropropene	[] 10	U
	Trichloroethene	[] 10	Ü.
124-48-1	Dibromochloromethane	10	U
79 <b>-</b> 00-5 <b></b>	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	שׁ
	2-Hexanone	10	U
	Tetrachloroethene	_ 10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	_ 10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	_ 10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U
540-59-0	1,2-Dichloroethene (total)_	10	U
		_ !	l

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW41-09

Lab Name:	COMPUCHEM
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Contract: OLM03-REVS

Lab Code: COMPU

Case No.: 34200 SAS No.:

SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944739

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cr044739b57

Level: (low/med)

LOW

Date Received: 06/11/99

Date Analyzed: 06/23/99

% Moisture: not dec. \_\_\_\_\_

Dilution Factor: 1.0

GC Column: EQUITY624 ID: 0.53 (mm)

Soil Extract Volume: (uL)

Soil Aliquot Volume: \_\_\_\_(uL)

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	1	EST. CONC.	
1.				=====
2. 3.				
4·				
5				
8	· · · · · · · · · · · · · · · · · · ·			
9				
11.				
12.				
14.				
16. 17.				
18.				
20				
21.				
43.				
24				
26.				
28				
29. 30.				
		l	l	

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Name: COMPUCHEM Contract: OLM03-REVS

ACSGWMW41-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944739

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044739A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

CAS NO. COMPOUND	CONCENTRATION (ug/L or ug/K		Q
108-95-2Phenol 111-44-4	benzene benzene benzene benzene ol 1-Chloropropane) ol -n-propylamine hane  l phenol ethoxy) methane phenol orobenzene  ine tadiene ethylphenol thalene clopentadiene orophenol orophenol thalene ne alate ne oluene ne	10 10 10 10 10 10 10 10 10 10 10 10 10 1	מממממממממממממממממממממממממממ

ACSGWMW41-09

Lab Name: COMPUCHEM Con. ract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944739

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044739A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

FORM I SV-2

OLM03.0

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW41-09

b Name: COMPULIEM

Contract: OLM03-REVS

SDG No.: 00002

Lab Code: COMPU Case No.: 34200 SAS No.:

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: GH044739A70

Level: (low/med) LOW

Matrix: (soil/water) WATER

Date Received: 06/11/99

Lab Sample ID: 944739

% Moisture:

decanted: (Y/N)

Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 07/20/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH:

Number TICs found: 28

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

1.       UNKNOWN SILOXANE       6.84       20       J         2.       UNKNOWN SILOXANE       6.89       15       J         3.       TRIMETHYLBENZENE       7.11       7       J         4.       UNKNOWN       7.43       20       J         5.       UNKNOWN       7.77       9       J         6.       UNKNOWN       8.26       6       J         7.       UNKNOWN       8.40       6       J         8.       UNKNOWN SILOXANE       8.53       12       J         9.       UNKNOWN       8.75       9       J         10.       UNKNOWN       9.41       6       J         11.       UNKNOWN       9.55       11       J         12.       UNKNOWN       9.85       74       J         13.       UNKNOWN       10.00       5       J         14.       UNKNOWN       10.14       17       J         15.       UNKNOWN       10.41       270       J         16.       UNKNOWN       10.54       39       J         17.       UNKNOWN       10.63       30       J	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
19. UNKNOWN 11.27 9 J 20. UNKNOWN 11.64 9 J 21. UNKNOWN 11.84 15 J 22. UNKNOWN 12.13 7 J 23. UNKNOWN 12.27 11 J 24. UNKNOWN 12.54 12 J 25. UNKNOWN 12.62 16 J 26. UNKNOWN 12.77 9 J 27. UNKNOWN 15.02 21 J 28. UNKNOWN SILOXANE 18.82 10 J	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29.	UNKNOWN SILOXANE UNKNOWN SILOXANE TRIMETHYLBENZENE UNKNOWN	======= 6.84 6.89 7.11 7.43 7.77 8.26 8.40 8.53 8.75 9.41 9.55 10.00 10.14 10.54 10.63 10.74 11.27 11.64 11.84 12.13 12.27 12.54 12.62 12.77 15.02	20 15 7 20 9 6 12 9 6 11 74 5 17 270 39 30 10 9 9 15 7	

### PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: COMPUCHEM Contract: OLM03-REVS ACSGWMW41-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944739

Sample wt/vol: 1020 (g/mL) ML Lab File ID:

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/15/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/17/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

319-84-6alpha-BHC	0.049	: . TT.
319-85-7beta-BHC	0.049	
319-86-8delta-BHC	0.049	
58-89-9gamma-BHC (Lindane)	0.049	
76-44-8Heptachlor	0.049	
309-00-2Aldrin		-
1024-57-3Heptachlor epoxide	0.049	
1024-5/-3Heptachior epoxide	0.049	-
959-98-8Endosulfan I	0.049	
60-57-1Dieldrin	0.098	
72-55-94,4'-DDE	0.098	4
72-20-8Endrin	0.098	
33213-65-9Endosulfan II	0.098	
72-54-84,4'-DDD	0.098	U
1031-07-8Endosulfan sulfate	0.098	ט
50-29-34,4'-DDT	0.098	U
72-43-5Methoxychlor	0.49	U
53494-70-5Endrin ketone	0.098	שו
7421-93-4Endrin aldehyde	0.098	
5103-71-9alpha-Chlordane	0.049	
5103-74-2gamma-Chlordane	0.049	
8001-35-2Toxaphene	4.9	
12674-11-2Aroclor-1016	0.98	
11104-28-2Aroclor-1221	2.0	
11141-16-5Aroclor-1232	0.98	
53469-21-9Aroclor-1242	0.98	
12672-29-6Aroclor-1248	0.98	_
11097-69-1Aroclor-1254	.	
11097-69-1Aroclor-1254 11096-82-5Aroclor-1260	0.98	l .
11030-02-3ALOCIOI-1200	0.98	U

#### U.S. EPA - CLP

## INORGANIC ANALYSES DATA SHEET

EPA SAMPLE	EPA	SAMPLE	NO.
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CHEM	,	Contract: II	LMO	4.0	ACSGWMW41-09		
Cas	se No.: 342	200_ SAS No.:	: <u></u>		SDG No.: 00002_		
er): WATER	2		La	b Sample	e ID: 944739		
: LOW	_	•	Da	te Rece:	ived: 06/11/99		
0.0	)						
Concentration Units (ug/L or mg/kg dry weight): UG/L							
CAS No.	Analyte	Concentration	С	Q 1	<u></u>		
7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-95-4 7439-96-5 7439-97-6 7440-02-0 7440-02-0 7440-22-4 7440-23-5	Antimony_Arsenic_Barium_Beryllium Cadmium_Calcium_Chromium_Cobalt_Copper_Iron_Lead_Magnesium Manganese Mercury_Nickel_Potassium_Selenium_Silver_Sodium_	1.4 17.6 0.10 0.29 41400 8.6 1.7 4.2 187 1.3 13900 16.3 0.05 4.7 279 1.6 0.40 8350	BUBUB BBB B IB I UBBUU	E			
	Caster): WATER LOW	Case No.: 342  LOW	Case No.: 34200 SAS No.:  Ler): WATER  LOW	Case No.: 34200 SAS No.:	Case No.: 34200 SAS No.:		

Color Bef	ore: COLO	RLESS Cl	arity B	Before: (	CLEAR_	Texture:
Color Aft	er: COLO	RLESS Cl	arity A	After: (	CLEAR_	Artifacts:
Comments:						

0.40 U \_4.7 U

7440-66-6

Zinc\_

Cyanide

FORM I - IN

ILM04.0

ACSGWMW42-09

Q

10 U

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944693

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR044693B57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

CCMPOUND

75-15-0-----Carbon Disulfide

CAS NO.

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

 74-87-3------Chloromethane
 10 U

 74-83-9-----Bromomethane
 10 U

 75-01-4-----Vinyl Chloride
 10 U

 75-00-3-----Chloroethane
 10 U

 75-09-2-----Methylene Chloride
 3 J

 67-64-1-----Acetone
 3 JB

 75-35-4-----1, 1-Dichloroethene
 10 U

 75-34-3----1, 1-Dichloroethane
 10 U

 67-66-3-----Chloroform
 10 U

 107-06-2----1, 2-Dichloroethane
 10 U

 78-93-3-----2-Butanone
 10 U

 71-55-6-----1,1,1-Trichloroethane
 10 U

 56-23-5-----Carbon Tetrachloride
 10 U

 75-27-4-----Bromodichloromethane
 10 U

78-87-5---- ---1,2-Dichloropropane 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U

79-01-6-----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U

 79-00-5-----1,1,2-Trichloroethane
 10 U

 71-43-2-----Benzene
 10 U

 10061-02-6----trans-1,3-Dichloropropene
 10 U

75-25-2-----Bromoform 10 U 108-10-1-----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U

127-18-4-----Tetrachloroethene 10 U 79-34-5-----1,1,2,2-Tetrachloroethane 10 U

108-88-3------Toluene 10 U 108-90-7------Chlorobenzene 10 U

100-41-4-----Ethylbenzene 10 U 100-42-5-----Styrene 10 U

1330-20-7-----Xylene (Total) 10 U 540-59-0-----1,2-Dichloroethene (total) 10 T

#### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name:	COMPUCHEM
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Contract: OLM03-REVS

ACSGWMW42-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944693

Sample wt/vol: 5.0 (q/mL) mL

Lab File ID: cr044693b57

Level: (low/med) LOW

Date Received: 06/11/99

% Moisture: not dec.

Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm)

Number TICs found: 0

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3. 4.				
[ 5  _				
6				
7				
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10		<del></del>		
12				
13				
14				
16				
l 17				
18. 19. 20. 21.				
20.				
21				<del></del>
22		<del></del>	· ·	<del></del>
24.				
25 26				
27.				
28				
29. 30.				

ACSGWMW42-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944693

Sample wt/vol: 950 (g/mL) ML Lab File ID: GH044693A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND (ug/L or ug	g/Kg) UG	l/L	ζ	5
108-95-2	Phenol bis(2-Chloroethyl)ether 2-Chlorophenol	_	10	U U U	
541-73-1	1,3-Dichlorobenzene	-		Ŭ	
106-46-7	1,4-Dichlorobenzene			U	
95-50-1	1,2-Dichlorobenzene			U	. }
95-48-7	2-Methylphenol			U	
108-60-1	2,2'-oxybis(1-Chloropropane)	)		U	
106-44-5	4-Methylphenol	_		U	
621-64-7	N-Nitroso-di-n-propylamine_			U	
67-72-1	Hexachloroethane			U	
	Isophorone	-		U U	
1 99-75-5	2-Nitrophenol	_		U	-
105-67-9	2,4-Dimethylphenol	-		บ	
111-91-1	bis(2-Chloroethoxy) methane	-  ,		Ü	
120-83-2	2,4-Dichlorophenol	-	1	Ŭ	
120-82-1	2,4-Dichlorophenol	-		U	
91-20-3	Naphthalene		10	U	
106-47-8	4-Chloroaniline	_		U	
87-68-3	Hexachlorobutadiene	_  \		U	1
	4-Chloro-3-methylphenol	_	1	U	
91-57-6	2-Methylnaphthalene	_  ` `		U	
77-47-4	Hexachlorocyclopentadiene	_		U	1
95.95.4	2,4,6-Trichlorophenol	-	1	U U	
91-58-7	2-Chloronaphthalene	-		Ü	
88-74-4	2-Nitroaniline	-}	1	Ü	Ì
131-11-3	Dimethylphthalate			Ü	
1 208-96-8	Acenaphthylene		l	Ŭ	
606-20-2	2.6-Dinitrotoluene	-	I	Ū	Ì
99-09-2	3-Nitroaniline	_	. 26	Ū	
83-32-9	Acenaphthene	_	10	U	
			<u> </u>		

b Name: COMPUCHEM Contract: OLM03-REVS ACSGWMW42-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944693

Sample wt/vol: 950 (g/mL) ML Lab File ID: GH044693A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: decanted: (Y/N) Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L (

51-28-5----2,4-Dinitrophenol 26 U 100-02-7----4-Nitrophenol 26 U 132-64-9-----Dibenzofuran 10 U 121-14-2----2,4-Dinitrotoluene 10 U 84-66-2----Diethylphthalate 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene U 100-01-6-----4-Nitroaniline U 26 l 26 U 534-52-1----4,6-Dinitro-2-methylphenol 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3-----4-Bromophenyl-phenylether 10 U 118-74-1------Hexachlorobenzene 10 U 87-86-5-----Pentachlorophenol\_85-01-8-----Phenanthrene\_ 26 U 10 U 120-12-7-----Anthracene\_ 10 U 86-74-8-----Carbazole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1----3,3'-Dichlorobenzidine 10 U 56-55-3-----Benzo(a) anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 2 J 117-84-0-----Di-n-octylphthalate 10 U 205-99-2----Benzo (b) fluoranthene 10 U 207-08-9-----Benzo(k) fluoranthene 10 U 50-32-8-----Benzo(a)pyrene 10 U 193-39-5----Indeno(1,2,3-cd)pyrene\_ 10 U 53-70-3-----Dibenzo (a, h) anthracene 10 U 191-24-2----Benzo(g,h,i)perylene\_\_\_ 10 U (i) - Cannot be separated from Diphenylamine

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW42-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944693

Sample wt/vol:

GH044693A70

950 (g/mL) ML

Lab File ID:

Level: (low/med) LOW

Date Received: 06/11/99

% Moisture:

decanted: (Y/N)

Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 07/20/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 3

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4.	UNKNOWN UNKNOWN	11.62 17.74 20.33	3 10 6	J J
5. 6. 7. 8.				
9. 10. 11. 12. 13.				
14. 15. 16.				
18. 19. 20. 21. 22.				
23. 24. 25. 26.				
27. 28. 29. 30.				

ACSGWMW42-09MS b Name: COMPUCHEM Contract: OLM03-REVS Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002 Matrix: (soil/water) WATER Lab Sample ID: 944476 Sample wt/vol: 500 (q/mL) MLLab File ID: GH044476B70 (low/med) LOW Date Received: 06/11/99 Level: % Moisture: \_\_ \_\_ decanted: (Y/N) Date Extracted:06/16/99 Concentrated Extract Volume: 500 (uL) Date Analyzed: 07/07/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 108-95-2-----Phenol - 53 10 111-44-4-----bis(2-Chloroethyl)ether 95-57-8----2-Chlorophenol 52 541-73-1----1,3-Dichlorobenzene 106-46-7----1,4-Dichlorobenzene 10 32 95-50-1-----1,2-Dichlorobenzene\_ 10 95-48-7----2-Methylphenol 10 108-60-1----2,2'-oxybis(1-Chloropropane) U 10 106-44-5-----4-Methylphenol 10 U 621-64-7-----N-Nitroso-di-n-propylamine 32 67-72-1-----Hexachloroethane 10 | U 98-95-3-----Nitrobenzene 10 U 78-59-1-----Isophorone 10 U 88-75-5-----2-Nitrophenol 105-67-9-----2,4-Dimethylphenol 111-91-1-----bis(2-Chloroethoxy)methane 10 U 10 U 10 U 10 U 39 10 U 91-20-3----Naphthalene

FORM I SV-1

106-47-8-----4-Chloroaniline

88-74-4----2-Nitroaniline

208-96-8-----Acenaphthylene

99-09-2-----3-Nitroaniline

83-32-9-----Acenaphthene

87-68-3-----Hexachlorobutadiene

91-57-6-----2-Methylnaphthalene

88-06-2-----2,4,6-Trichlorophenol\_ 95-95-4-----2,4,5-Trichlorophenol\_

91-58-7----2-Chloronaphthalene

131-11-3-----Dimethylphthalate\_

606-20-2-----2,6-Dinitrotoluene

59-50-7----4-Chloro-3-methylphenol

77-47-4-----Hexachlorocyclopentadiene

10 U

10 U

10 U

10 U 25 U

10 U

10 U

10 U

25 U

36

U 25

U 10

70 10 U

ACSGWMW42-09MS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944476

Sample wt/vol: 500 (g/mL) ML Lab File ID: GH044476B70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_ Date Extracted:06/16/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

					٠,			
	51_28_5	2,4-Dinitrophenol				25	IJ	
		4-Nitrophenol				68	J	
		Dibenzofuran			,	10	TT	
		2,4-Dinitrotoluene		٠.		35		
,	84-66-2	Diethylphthalate	ļ			10	<del>                                      </del>	<del></del>
	7005-72-3	4-Chlorophenyl-phenylether				10		٠.
	86-73-7	Fluorene				10		
	100-01-6	4-Nitroaniline		:		25	-	
		4,6-Dinitro-2-methylphenol_				25		
	354-35-1	N-nitrosodiphenylamine (1)		i		10		
	101	4-Bromophenyl-phenylether				10		
.	101-33-3	Hexachlorobenzene	<b>\</b>			10		
	07-06-5	Pentachlorophenol				91		
	0F 01 0	Phenanthrene				10		
:		Anthracene	}			10		
	86-74-8					10		
		Di-n-butylphthalate						
	206 44 0	Fluoranthene				10		
	206-44-0	riuoranthene				10	ľ	
	129-00-0					42		
	85-68-7	Butylbenzylphthalate	ļ			10		
	91-94-1	3,3'-Dichlorobenzidine	}			10	1	
	56-55-3	Benzo (a) anthracene	ĺ			10	1 -	
	218-01-9	Chrysene	ļ			10	_	
	117-81-7	bis(2-Ethylhexyl)phthalate	ļ			10	-	
	117-84-0	Di-n-octylphthalate	ļ			10	1 -	
	205-99-2	Benzo(b) fluoranthene	1			10	I -	
	207-08-9	Benzo(k) fluoranthene	1			10	ı –	
	50-32-8	Benzo(a)pyrene	1			10	i	
	193-39-5	Indeno(1,2,3-cd)pyrene	1			10	1 .	
	53-70-3	Dibenzo(a,h)anthracene	1			10	_	
	191-24-2	Benzo(g,h,i)perylene	1			10	U	
, .			l	<u> </u>				
( :	l) - Cannot be	separated from Diphenylamine						

Name: COMPUCHEM Contract: OLM03-REVS

ACSGWMW42-09MSD

4 - 4 - 47.

CONCENTRATION UNITS:

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944477

Sample wt/vol: 500 (g/mL) ML Lab File ID: GH044477B70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_ Date Extracted:06/16/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

CAS NO.	COMPOUND	(ug/L or ug/Kg) ${ t UG/L}$	Q
:			

108-95-2Phenol	50	
111-44-4bis(2-Chloroethyl)ether		Ū
95-57-82-Chlorophenol	54	<del></del>
541-73-11,3-Dichlorobenzene	10	0
106-46-71,4-Dichlorobenzene 95-50-11,2-Dichlorobenzene	26 10	<del>U</del>
95-48-72-Methylphenol		บ
108-60-12,2'-oxybis(1-Chloropropane)	1 - 1	η .
106-44-54-Methylphenol	1	υ
621-64-7N-Nitroso-di-n-propylamine	27	
67-72-1Hexachloroethane	10	U
98-95-3Nitrobenzene	10	U
78-59-1Isophorone	10	ט
88-75-52-Nitrophenol	10	ע
105-67-92,4-Dimethylphenol	10	U
111-91-1bis(2-Chloroethoxy)methane		U
120-83-22,4-Dichlorophenol	1 1	U
120-82-11,2,4-Trichlorobenzene	33	
91-20-3Naphthalene	,	Ŭ
106-47-84-Chloroaniline	10	- 1
87-68-3Hexachlorobutadiene	10	0
59-50-74-Chloro-3-methylphenol	66	<del></del>
91-57-62-Methylnaphthalene 77-47-4Hexachlorocyclopentadiene	10	ן ט
88-06-22,4,6-Trichlorophenol	1	
95-95-42,4,5-Trichlorophenol	25	- 1
91-58-72-Chloronaphthalene	10	-
88-74-42-Nitroaniline	25	_
131-11-3Dimethylphthalate	10	_
208-96-8Acenaphthylene	10	1
606-20-22,6-Dinitrotoluene	10	1
99-09-23-Nitroaniline	25	ן ע
83-32-9Acenaphthene	37	Į l

ACSGWMW42-09MSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944477

Sample wt/vol: 500 (g/mL) ML Lab File ID: GH044477B70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: decanted: (Y/N) Date Extracted:06/16/99

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 51-28-5----2,4-Dinitrophenol 25 U 100-02-7----4-Nitrophenol 66 132-64-9------Dibenzofuran Ū 10 121-14-2----2,4-Dinitrotoluene 38 84-66-2-----Diethylphthalate 10 7005-72-3-----4-Chlorophenyl-phenylether 10 U 86-73-7----Fluorene 10 U 100-01-6-----4-Nitroaniline 25 U 534-52-1-----4,6-Dinitro-2-methylphenol 25 U 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3-----4-Bromophenyl-phenylether\_ 10 U 118-74-1-----Hexachlorobenzene 10 U 87-86-5-----Pentachlorophenol 88 Ε 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8-----Carbazole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 43 85-68-7-----Butylbenzylphthalate 10 U 91-94-1-----3,37-Dichlorobenzidine\_ 10 U 56-55-3-----Benzo(a) anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 10 U 117-84-0-----Di-n-octylphthalate\_ 10 U 205-99-2------Benzo(b) fluoranthene 10 U 207-08-9-----Benzo(k) fluoranthene 10 U 50-32-8-----Benzo (a) pyrene 10 U 193-39-5----Indeno(1,2,3-cd)pyrene 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 U 191-24-2----Benzo(g,h,i)perylene\_ 10 U (1) - Cannot be separated from Diphenylamine

## PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW42-09

Name: COMPUCHEM Contract: OLM03-REVS

bab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944693

980.0 (g/mL) ML Sample wt/vol: Lab File ID:

% Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

#### U.S. EPA - CLP

#### 1 INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO
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Lab Name: COMPUCHEM_		_ Conti	ract: ILM	104.0	ACSGWMW42	-09
Lab Code: COMPU_	Case No.: 3	4200_ \$	SAS No.:		SDG No.: 0	0002_
Matrix (soil/water):	WATER		L	ab Sample	ID: 94469	3
Level (low/med):	LOW	•	D	ate Recei	ved: 06/11	/99
2 Solida:	0 0					

Concentration Units (ug/L or mg/kg dry weight): UG/L\_\_\_\_

				<del></del>	
CAS No.	Analyte	Concentration	С	Q	М
7429-90-5	Aluminum	8.9	ਹ		P
7440-36-0	Antimony -	26.2	В		P_
7440-38-2	Arsenic -	2.3	В		P
7440-39-3	Barium —	65.4	В		P_
7440-41-7	Beryllium	0.10	U		P_
7440-43-9	Cadmium	1.0	В	-	P
7440-70-2	Calcium	107000			P
7440-47-3	Chromium	0.71	B		P
7440-48-4	Cobalt	1.4	В		P
7440-50-8	Copper	1.7	В		P_
7439-89-6	Iron	3390			P_
7439-92-1	Lead	1.0	บิ		P_
7439-95-4	Magnesium	40300			P
7439-96-5	Manganese	631	_		P
7439-97-6	Mercury	0.05	Ū		C∇
7440-02-0	Nickel	0.50	U		Р
7440-09-7	Potassium	868	В	E	P
7782-49-2	Selenium	1.6	U		P_
7440-22-4	Silver	0.40	U		P_
7440-23-5	Sodium	14800			P_
7440-28-0	Thallium_	2.1	Ū		P_
7440-62-2	Vanadium_	0.40	U		P_
7440-66-6	Zinc	0.40	U		P_
	Cyanide	4.7	U		CĀ
			_		<u> </u>

Color Before: Color After:	COLORLESS	Clarity Before: Clarity After:	_	Texture: Artifacts:	
Comments:			·		
					<u> </u>

FORM I - IN

ILM04.0

Name: COMPUCHEM Contract: OLM03-REVS MW43-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945262

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045262A57

Level: (low/med) LOW . Date Received: 06/12/99

% Moisture: not dec. Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_\_(uL

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L CAS NO. COMPOUND 74-87-3-----Chloromethane 10 U 74-83-9-----Bromomethane 10 U 75-01-4-----Vinyl Chloride 10 U 75-00-3-----Chloroethane 10 U 75-09-2-----Methylene Chloride 2 J 67-64-1------Acetone 75-15-0------Carbon Disulfide\_ 4 J 10 U 75-35-4----1,1-Dichloroethene\_\_\_\_ 10 U 75-34-3-----1,1-Dichloroethane 10 U 67-66-3-----Chloroform 10 U 107-06-2-----1,2-Dichloroethane 10 U 78-93-3-----2-Butanone 10 U 71-55-6-----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 U 75-27-4-----Bromodichloromethane 10 U 78-87-5----1,2-Dichloropropane
10061-01-5----cis-1,3-Dichloropropene 10 U 10 U 79-01-6-----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 10 U 71-43-2----Benzene 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2-----Bromoform 10 U 108-10-1-----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U 127-18-4-----Tetrachloroethene 10 U 79-34-5-----1,1,2,2-Tetrachloroethane\_ 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene 10 U 10 U 100-41-4-----Ethylbenzene 10 U 10 U 10 U

#### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW43-09

Soil Aliquot Volume: \_\_\_\_(uL

Lab Name: COMPUCHEM		Contract: OLM03-REV	S
Lab Code: COMPU	Case No.: 34200	SAS No.:	SDG No.: 00005
Matrix: (soil/water)	WATER	Lab Sample	ID: 945262
Sample wt/vol:	5.0 (g/mL) mL	Lab File I	D: cn045262a57
Level: (low/med)	LOW .	Date Recei	ved: 06/12/99
% Moisture: not dec.		Date Analy	zed: 06/24/99
GC Column: EQUITY624	ID: 0.53 (mm)	Dilution F	actor: 1.0

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Soil Extract Volume: \_\_\_\_(uL)

CAS NUMBER	COMPOUND NAME		EST. CONC.	
1	=======================================	========	============	=====
2.				
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5.—————————————————————————————————————		_	·	<u> </u>
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FORM I VOA-TIC

OLM03.0

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW43-09
Leb Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945262

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045262B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: decanted: (Y/N) Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

108-95-2Phenol	10	U .
111-44-4bis(2-Chloroethyl)ether	10	Ū
95-57-82-Chlorophenol	10	_
541-73-11,3-Dichlorobenzene	10	
106-46-71,4-Dichlorobenzene	10	ΰ.
95-50-11,2-Dichlorobenzene	10	Ū
95-48-72-Methylphenol	10	1 -
108-60-12,2'-oxybis(1-Chloropropane)	10	
106-44-54-Methylphenol	10	
621-64-7N-Nitroso-di-n-propylamine	10	
67-72-1Hexachloroethane	10	Ū
98-95-3Nitrobenzene	10	ן מ
78-59-1Isophorone	10	ן מ
88-75-52-Nitrophenol	10	ן מ
		นี
105-67-92,4-Dimethylphenol	10	-
111-91-1bis(2-Chloroethoxy) methane	10	ט
120-83-22,4-Dichlorophenol	10	Ţ.
120-82-11,2,4-Trichlorobenzene	10	U
91-20-3Naphthalene	10	ָט
106-47-84-Chloroaniline	10	U
87-68-3Hexachlorobutadiene	. 10	U
59-50-74-Chloro-3-methylphenol	10	Ŭ
91-57-62-Methylnaphthalene	10	U
77-47-4Hexachlorocyclopentadiene	10	U
88-06-22,4,6-Trichlorophenol	10	ט
95-95-42,4,5-Trichlorophenol	. 25	ן ט
91-58-72-Chloronaphthalene	10	ט ו
88-74-42-Nitroaniline	25	Ū
131-11-3Dimethylphthalate	10	Ü
208-96-8Acenaphthylene	10	Ü
606-20-22,6-Dinitrotoluene	10	Ŭ
99-09-23-Nitroaniline	25	-
83-32-9Acenaphthene	10	t .
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#### 1C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW43-09 Lab Name: COMPUCHEM Contract: OLM03-REVS

Case No.: 34200 SAS No.: SDG No.: 00005 Lab Code: COMPU

Matrix: (soil/water) WATER Lab Sample ID: 945262

Sample wt/vol: 1000 (q/mL) MLLab File ID: GH045262B70

Level: (low/med) LOW Date Received: 06/12/99

decanted: (Y/N) Date Extracted:06/16/99 % Moisture:

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/07/99

2.0(uL) Dilution Factor: 1.0 Injection Volume:

(Y/N) N pH:

GPC Cleanup:

CONCENTRATION UNITS:

CAS NO. COMPOUND (uq/L or uq/Kq) UG/L0 51-28-5-----2,4-Dinitrophenol\_ 25 U 100-02-7----4-Nitrophenol 25 U 132-64-9-----Dibenzofuran 10 U 121-14-2-----2,4-Dinitrotoluene\_ 84-66-2-----Diethylphthalate\_ 10 U 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 10 U 100-01-6-----4-Nitroaniline 25 Ū 534-52-1-----4,6-Dinitro-2-methylphenol 25 U 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 U 87-86-5-----Pentachlorophenol 25 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8-----Carbazole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1----3,3'-Dichlorobenzidine 10 U 56-55-3-----Benzo(a) anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 10 U 117-84-0------Di-n-octylphthalate\_ 205-99-2-----Benzo(b)fluoranthene 10 U 10 U 207-08-9-----Benzo(k)fluoranthene 10 U 50-32-8-----Benzo (a) pyrene 10 U 193-39-5----Indeno(1,2,3-cd)pyrene 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 U 191-24-2-----Benzo(g,h,i)perylene 10 U (1) - Cannot be separated from Diphenylamine

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW43-09

ab	Name:	COMPUCHEM
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Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00005

Matrix: (soil/water) WATER

Lab Sample ID: 945262

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: GH045262B70

Date Received: 06/12/99

Level: (low/med) LOW

Concentrated Extract Volume:

% Moisture: decanted: (Y/N)

1000(uL)

Date Extracted:06/16/99 Date Analyzed: 07/07/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1

CONCENTRATION UNITS: (uq/L or uq/Kq) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	17.59	3	J
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FORM I SV-TIC

OLM03.0

MW43-09

Dilution Factor: 1.0

Lab Name: COMPUCHEM Contract: OLM03-REVS Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945262

Sample wt/vol: 1030 (q/mL) ML Lab File ID:

% Moisture: decanted: (Y/N)\_\_\_\_ Date Received: 06/12/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

,		_
319-84-6alpha-BHC	0.048	TT
319-85-7beta-BHC	0.0045	1 -
319-86-8delta-BHC	0.048	1
58-89-9gamma-BHC (Lindane)	0.048	1 -
76-44-8Heptachlor	0.048	
309-00-2Aldrin	0.048	
1024-57-3Heptachlor epoxide	0.048	
959-98-8Endosulfan I	0.048	
60-57-1Dieldrin	0.048	
72-55-94,4'-DDE	0.097	
72-20-8Endrin	0.097	
33213-65-9Endosulfan II	0.097	
72-54-84,4'-DDD	0.097	
1031-07-8Endosulfan sulfate	0.097	_
50-29-34,4'-DDT	0.097	
72-43-5Methoxychlor	0.48	
53494-70-5Endrin ketone	0.097	
7421-93-4Endrin aldehyde	0.097	U
5103-71-9alpha-Chlordane	0.048	U
5103-74-2gamma-Chlordane	0.048	U
8001-35-2Toxaphene	4.8	U
12674-11-2Aroclor-1016	0.97	U
11104-28-2Aroclor-1221	1.9	U
11141-16-5Aroclor-1232	0.97	U
53469-21-9Aroclor-1242	0.97	
12672-29-6Aroclor-1248	0.97	
11097-69-1Aroclor-1254	0.97	1
11096-82-5Aroclor-1260	0.97	
		· ———

# 1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

_		INORGANIC A	ANALYSES DATA S	SHEET	
Lab Name: COMPUCHEM			Contract: II	Contract: ILM04.0	
ab Code: COMP	U_ Ca	se No.: 342	SAS No.	:	SDG No.: 00005
atrix (soil/w	ater): WATE	R .		Lab Sampl	le ID: 945262
evel (low/med	): LOW_			Date Rece	eived: 06/12/99
Solids:	0.	0			
Co	ncentration	Units (ug	L or mg/kg dry	y weight):	: UG/L
	CAS No.	Analyte	Concentration	C Q	M
	7429-90-5 7440-36-0 7440-38-2 7440-41-7 7440-43-9 7440-47-3 7440-47-3 7440-48-4 7440-50-8 7439-95-4 7439-95-4 7439-96-5 7439-97-6 7440-02-0 7440-02-0 7440-22-4 7440-23-5 7440-28-0 7440-66-6	Aluminum_ Antimony_ Arsenic_ Barium_ Beryllium Cadmium_ Calcium_ Chromium_ Cobalt_ Copper_ Iron_ Lead_ Magnesium Manganese Mercury_ Nickel_ Potassium Selenium_ Silver_ Sodium_ Thallium_ Vanadium_ Zinc Cyanide_	2.1 1.3 10000 1.0 45500 245 0.05 4.3	B B B U U U U B B U U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B	P
olor Before:	COLORLESS	Clari	ty Before: CLE	AR_	Texture:
olor After:	COLORLESS	Clari	ty After: CLE	AR_	Artifacts:
omments:			•	•	

FORM I - IN

ILM04.0

EPA SAMPLE NO.

ACSGWMW44-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944691

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR044691B57

Level: (low/med) LOW

Date Received: 06/11/99

Date Analyzed: 06/23/99

% Moisture: not dec. \_\_\_\_\_

Soil Extract Volume: \_\_\_(uL)

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/L

		· · · · · · · · · · · · · · · · · · ·	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
	Vinyl Chloride	10	Ū
	Chloroethane	10	Ū
	Methylene Chloride	2	J
67-64-1			JВ
	Carbon Disulfide	10	1
	1,1-Dichloroethene	10	_
75-34-3	1,1-Dichloroethane	10	_
	Chloroform	10	
	1,2-Dichloroethane	10	ı
78-93-3		10	
	1,1,1-Trichloroethane	10	l .
56-23-5	Carbon Tetrachloride	10	_
	Bromodichloromethane	10	1
	1,2-Dichloropropane	10	1 -
	cis-1,3-Dichloropropene	10	l
	Trichloroethene	10	l
	Dibromochloromethane	10	-
	1,1,2-Trichloroethane	10	_
71-43-2		10	1
	trans-1,3-Dichloropropene	10	1
75-25-2		10	-
	4-Methyl-2-Pentanone	10	_
591-78-6		10	-
	Tetrachloroethene	10	1
	1,1,2,2-Tetrachloroethane	10	
108-88-3		10	_
	Chlorobenzene	10	
	Ethylbenzene	10	_
100-42-5		10	1 -
	Xylene (Total)	10	,
	1,2-Dichloroethene (total)	10	1
510 55 0	1,2 Dichilotoconche (cocat)	1	
	· · · · · · · · · · · · · · · · · · ·	. I	I

#### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab	Name:	COMPUCHEM

Contract: OLM03-REVS

ACSGWMW44-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944691

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cr044691b57

Level: (low/med) LOW

Date Received: 06/11/99

% Moisture: not dec.

Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: \_\_\_\_(uL)

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	T			
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	, ~
1.	SEMI TCL	20.21	7	J
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J		ļ		
4				
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25. 26.				
41.				<u> </u>
20.				
43		<u> </u>		
30				
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ACSGWMW44-99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944692

Sample wt/vol: 5.0 (q/mL) mL Lab File ID: CN044692A57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. \_\_\_ Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

COMPOUND

CAS NO.

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

74-87-3-----Chloromethane 10 U 74-83-9----Bromomethane 10 U 75-01-4-----Vinyl Chloride 10 U 10 U 75-00-3-----Chloroethane 75-09-2-----Methylene Chloride 3 | J 3 | JB 67-64-1-----Acetone 75-15-0-----Carbon Disulfide 10 U 75-35-4----1,1-Dichloroethene 10 U 75-34-3-----1,1-Dichloroethane 10 U 67-66-3-----Chloroform 10 U 107-06-2----1, 2-Dichloroethane 10 U 78-93-3----2-Butanone 10 U 71-55-6----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 U 75-27-4----Bromodichloromethane 10 U 78-87-5-----1,2-Dichloropropane\_ 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6-----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2----Benzene 10 U 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2-----Bromoform 10 U 108-10-1----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U 127-18-4-----Tetrachloroethene 10 U 79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene 10 U 100-41-4-----Ethylbenzene 10 U 100-42-5-----Styrene 10 U 1330-20-7-----Xylene (Total) 10 U

540-59-0----1,2-Dichloroethene (total)

10 U

#### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Contract: OLM03-REVS

ACSGWMW44-99

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00002

Matrix: (soil/water) WATER

Lab File ID: cn044692a57

Level: (low/med) LOW

5.0 (g/mL) mL

Date Received: 06/11/99

Lab Sample ID: 944692

Sample wt/vol:

% Moisture: not dec.

Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm)

Number TICs found: 0

Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_(uL)

Soil Extract Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2		<del></del>		
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5				
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7. 8:				
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10				<u>.</u>
11				
12.	· · · · · · · · · · · · · · · · · · ·			
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18				
18				
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21	<del></del>			
23				
44.				
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27.				
28				
29. 30.				
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ACSGWMW44-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944691

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044691A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: decanted: (Y/N) Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

	J. 3.	J. ,	-
100 05 0	Di ana I	10	
108-95-2		10	
	bis(2-Chloroethyl)ether	10	
	2-Chlorophenol	10	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	10	
95-50-1	1,2-Dichlorobenzene	10	
95-48-7	2-Methylphenol	10	
108-60-1	2,2'-oxybis(1-Chloropropane)	10	1
106-44-5	4-Methylphenol	10	1
621-64-7	N-Nitroso-di-n-propylamine	10	
	Hexachloroethane	10	U
	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
	2,4-Dichlorophenol	10	ַ
120-82-1	1,2,4-Trichlorobenzene	10	lυ
	Naphthalene	10	U
	4-Chloroaniline	10	υ.
	Hexachlorobutadiene	. 10	1
	4-Chloro-3-methylphenol	10	
	2-Methylnaphthalene	10	
77-47-4	Hexachlorocyclopentadiene	10	
88-06-2	2;4,6-Trichlorophenol	10	1
95-95-4	2,4,5-Trichlorophenol	25	1
91-58-7	2-Chloronaphthalene	10	1
	2-Nitroaniline	25	1
	Dimethylphthalate	10	1
	Acenaphthylene	10	1
606-20-2	2,6-Dinitrotoluene	10	-
000-20-2	3-Nitroaniline	25	
	Acenaphthene		
03-34-9	Acenaphenene	10	١٠
		l <u>: </u>	l

FORM I SV-1

ab Name: COMPUCHEM Contract: OLM03-REVS

ACSGWMW44-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944691

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044691A70

Level: (low/med) LOW: Date Received: 06/11/99

% Moisture: decanted: (Y/N) \_\_\_ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

	ug/Kg) UG/L Q
51-28-52,4-Dinitrophenol       25 U         100-02-74-Nitrophenol       25 U         132-64-9Dibenzofuran       10 U         121-14-22,4-Dinitrotoluene       10 U         84-66-2Diethylphthalate       10 U         7005-72-34-Chlorophenyl-phenylether       10 U         86-73-7Fluorene       10 U         100-01-64-Nitroaniline       25 U         534-52-14-6-Dinitro-2-methylphenol       25 U         86-30-6N-nitrosodiphenylamine       11 U         101-55-3	25 U 10 U 10 U 10 U 10 U 10 U 25 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10

CONCENTRATION UNITS:

FORM I SV-2

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW44-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU

Case No.: 34200 SAS No.:

SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944691

Sample wt/vol:

1000 (g/mL) ML

Lab File ID:

GH044691A70

Level: (low/med) LOW

Date Received: 06/11/99

% Moisture: decanted: (Y/N)

1000 (uL)

Date Extracted:06/14/99

Concentrated Extract Volume:

Date Analyzed: 07/20/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 14

CONCENTRATION UNITS: (uq/L or uq/Kg) UG/L

FORM I SV-TIC

o Code: COMPU

Sample wt/vol: 500.0 (g/mL) ML

ACSGWMW44-09

SDG No.: 00002

Lab File ID:

Name: COMPUCHEM Contract: OLM03-REVS

Matrix: (soil/water) WATER Lab Sample ID: 944691

Case No.: 34200 SAS No.:

% Moisture: decanted: (Y/N) Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

319-84-6	alpha-BHC	0.050	IJ
319-85-7	beta-BHC	0.050	1
319-86-8		0.050	
	gamma-BHC (Lindane)	0.050	
	Heptachlor	0.050	
309-00-2	Aldrin	0.0018	
	Heptachlor epoxide	0.0011	
959-98-8	Endosulfan I	0.050	
60-57-1	Dieldrin	0.10	ľ
72-55-9		0.10	
72-20-8		0.10	
	Endosulfan II	0.10	
72-54-8		0.10	1
1031-07-8	Endosulfan sulfate	0.10	1
50-29-3		0.10	
	Methoxychlor	0.50	1
	Endrin ketone	0.10	
	Endrin aldehyde	0.10	1
	alpha-Chlordane	0.050	
5103-74-2	gamma-Chlordane	0.0011	
8001-35-2	Toxaphene	5.0	
	Aroclor-1016	1.0	
	Aroclor-1221	2.0	1
	Aroclor-1232	1.0	1
	Aroclor-1242	1.0	
	Aroclor-1248	1.0	1
	Aroclor-1254	1.0	-
	Aroclor-1260	1.0	
1 3 3 3 3			
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#### U.S. EPA - CLP

# 1 INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO
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ACSGWMW44-09	

Lab	Name:	COMPUCHEM		Cont	tract: ILM04.0	
Lab	Code:	COMPU_	Case No.:	34200_	SAS No.:	SDG No.: 00002_

Matrix (soil/water): WATER Lab Sample ID: 944691

Level (low/med): LOW\_\_\_ Date Received: 06/11/99

% Solids: \_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_\_\_\_

CAS No.	Analyte	Concentration	С	Q	М
7429-90-5	Aluminum	8.9	ਹ		$\left  {P} \right $
7440-36-0	Antimony	1.0	ט		P
7440-38-2	Arsenic	7.3	В		P-
7440-39-3	Barium —	119	В		$ P^- $
7440-41-7	Beryllium	0.10	U		P_
7440-43-9	Cadmium	1.1	В		P
7440-70-2	Calcium	87800			$ P^- $
7440-47-3	Chromium	5.9	$\overline{B}$		P
7440-48-4	Cobalt	0.51	В		P_
7440-50-8	Copper	2.3	В		P_
7439-89-6	Iron	1700			P_
7439-92-1	Lead	1.0	บิ		P_
7439-95-4	Magnesium	38000			P_
7439-96-5	Manganese	35.1			P_
7439-97-6	Mercury	0.05	Ū		CV
7440-02-0	Nickel	3.1	В		P_
7440-09-7	Potassium	973	В	E	P_
7782-49-2	Selenium_	1.6	U		P_
7440-22-4	Silver	0.52	В		P_
7440-23-5	Sodium	26400	_		P_
7440-28-0	Thallium_	2.1	ับ		P_
7440-62-2	Vanadium_	0.40	U		P_
7440-66-6	Zinc	0.40	U		P
	Cyanide	4.7	U		CĀ
	l	<u> </u>	_		ll

Color Be	fore: C	COLORLESS	Clarity	Before:	CLEAR_	Texture:	_
Color Af	ter: (	COLORLESS	Clarity	After:	CLEAR_	Artifacts:	
Comments	:						

FORM I - IN

ACSGWMW44-99

b Name: COMPL HEM Contract: OLM03-REVS

SDG No.: 00002 Lab Code: COMPU Case No.: 34200 SAS No.:

Lab Sample ID: 944692 Matrix: (soil/water) WATER

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044692A70

Date Received: 06/11/99 Level: (low/med) LOW

Date Extracted:06/14/99 % Moisture: decanted: (Y/N)

Date Analyzed: 07/20/99 Concentrated Extract Volume: 1000(uL)

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

> (ug/L or ug/Kg) UG/L CAS NO.

		·	
100 05 0	Dhana!	10 0	,
108-95-2		10   U 10   U	
111-44-4	bis(2-Chloroethyl)ether	10 0	·
95-5/-8	2-Chlorophenol	10 0	- 1
541-/3-1	1,3-Dichloropenzene		i
106-46-7	1,4-Dichlorobenzene	10 0	
95-50-1	1,2-Dichlorobenzene	10 0	
95-48-/	2-Methylphenol	10 0	
108-60-1	2,2'-oxybis(1-Chloropropane)	10 0	
	4-Methylphenol	10 0	
	N-Nitroso-di-n-propylamine	10 0	-
67-72-1	Hexachloroethane	10 0	-
	Nitrobenzene	10 0	
	Isophorone	10 0	
88-75-5	2-Nitrophenol	10 0	-
105-67-9	2,4-Dimethylphenol	10 0	-
	bis(2-Chloroethoxy)methane	10 0	-
120-83-2	2,4-Dichlorophenol	10 0	-
	1,2,4-Trichlorobenzene	10   0	-
91-20-3	Naphthalene	10   0	-
	4-Chloroaniline	10 0	
87-68-3	Hexachlorobutadiene	10 0	
59-50-7	4-Chloro-3-methylphenol	10 0	-
	2-Methylnaphthalene	10 0	J
77-47-4	Hexachlorocyclopentadiene	10 t	J
88-06-2	2,4,6-Trichlorophenol	10   0	-
95-95-4	2,4,5-Trichlorophenol	25 \	J
91-58-7 <del>-</del>	2-Chloronaphthalene	10 0	J "
	2-Nitroaniline	25   1	J
131-11-3	Dimethylphthalate	10   0	IJ
208-96-8	Acenaphthylene	10 [	IJ
606-20-2	2,6-Dinitrotoluene	10 0	J
99-09-2	3-Nitroaniline	1	Ĵ
83-32-9	Acenaphthene	10 0	J
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FORM I SV-1

ACSGWMW44-99

Q

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944692

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044692A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: decanted: (Y/N) Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

Injection volume: 2.0 (ub) Dilution factor: 1.0

pH:

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

25 U 51-28-5-----2,4-Dinitrophenol 100-02-7----4-Nitrophenol 25 U 132-64-9-----Dibenzofuran 10 U 121-14-2----2,4-Dinitrotoluene\_\_\_\_ 10 U 84-66-2-----Diethylphthalate 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 10 U 100-01-6-----4-Nitroaniline 25 l U 534-52-1-----4,6-Dinitro-2-methylphenol\_\_ 25 I U 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3-----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 U 87-86-5-----Pentachlorophenol 25 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8------Carbazole 10 U 10 U 84-74-2----Di-n-butylphthalate 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1-----3,37-Dichlorobenzidine 10 U 56-55-3-----Benzo(a)anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 10 U 117-84-0-----Di-n-octylphthalate 10 U 205-99-2----Benzo (b) fluoranthene 10 U 207-08-9-----Benzo(k) fluoranthene 10 U 50-32-8-----Benzo(a)pyrene 10 U

FORM I SV-2

193-39-5-----Indeno (1, 2, 3-cd) pyrene

(1) - Cannot be separated from Diphenylamine

191-24-2----Benzo(g,h,i)perylene\_

53-70-3-----Dibenzo(a,h)anthracene

10 U

10 U

10 U

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW44-99

b Name: COMPUCHEM

Contract: OLM03-REVS

SDG No.: 00002

Lab Code: COMPU

Case No.: 34200 SAS No.:

Lab Sample ID: 944692

Sample wt/vol:

Matrix: (soil/water) WATER

Lab File ID: GH044692A70

Level: (low/med) LOW

1000 (g/mL) ML

Date Received: 06/11/99

% Moisture: decanted: (Y/N)

Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 07/20/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

Number TICs found: 24

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25.	UNKNOWN SILOXANE UNKNOWN	6.84 7.44 7.77 8.53 8.75 9.55 9.63 9.82 10.16 10.22 10.39 10.49 11.85 12.27 12.54 12.54 12.79 12.98 13.35 19.33	13 17 13 7 11 13 7 39 37 28 170 22 20 59 8 21 17 37 36 16 21 14 31 26	JJJJBB JJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJ
26. 27. 28. 29.				

Sample wt/vol: 1030 (g/mL) ML

Lab Name: COMPUCHEM Ontract: OLM03-REVS

Lab File ID:

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944692

% Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_\_ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) N pH: \_\_\_\_

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

#### 1 INORGANIC ANALYSES DATA SHEET

		INORGANIC A	ANALISES DATA S	SUEEI	1
Lab Name: COMPU	JCHEM		Contract: II	LM04.0	ACSGWMW44-99
Lab Code: COMPU	J_ Ca	se No.: 342	SAS No.	:	SDG No.: 00002_
Matrix (soil/wa	ater): WATE	R		Lab Sampl	le ID: 944692
Level (low/med)	: LOW_			Date Rece	eived: 06/11/99
% Solids:	0.	0			
Cor	CAS No.  7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-95-4 7439-97-6 7440-02-0 7440-09-7 7782-49-2 7440-23-5	Analyte  Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium	0.61 87100 48.2 0.43 4.1 5810 1.8 37700	C Q B B B B B B B B B B B B B B B B B B	M P P P P P P P P P P P P P P P P P P P
Color Before:	7440-28-0 7440-62-2 7440-66-6	Thallium_ Vanadium_ Zinc_ Cyanide_	2.1 0.40 0.40 4.7	U	P_  P_  CA  Texture:

Commer	 COLORLESS		After:	<del>-</del>	Artifacts: _	
			·	· · · · · · · · · · · · · · · · · · ·		
		, <u> </u>				

FORM I - IN

ILM04.0

#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW45-09

Lab Name: COMPUCHEM Corract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944740

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: C2R44740A57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. \_\_\_ Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L Q

74-87-3				
74-83-9	74-87-3	Chloromethane	50	U
75-01-4Vinyl Chloride         50 U           75-00-3Chloroethane         38 J           75-09-2Methylene Chloride         50 U           67-64-1Acetone         50 U           75-15-0Carbon Disulfide         50 U           75-35-41,1-Dichloroethene         50 U           75-34-31,1-Dichloroethane         50 U           67-66-3				
75-00-3Chloroethane       38 J         75-09-2Methylene Chloride       50 U         67-64-1Acetone       50 U         75-15-0Carbon Disulfide       50 U         75-35-41,1-Dichloroethane       50 U         75-34-31,1-Dichloroethane       50 U         67-66-3Chloroform       50 U         107-06-21,2-Dichloroethane       50 U         78-93-32-Butanone       50 U         71-55-6Carbon Tetrachloride       50 U         75-27-4			i e	
75-09-2				
67-64-1				
75-15-0				
75-35-41,1-Dichloroethene       50 U         75-34-31,1-Dichloroethane       50 U         67-66-3Chloroform       50 U         107-06-21,2-Dichloroethane       50 U         78-93-32-Butanone       50 U         71-55-61,1,1-Trichloroethane       50 U         56-23-5Carbon Tetrachloride       50 U         75-27-4Bromodichloromethane       50 U         78-87-51,2-Dichloropropane       50 U         10061-01-5cis-1,3-Dichloropropene       50 U         79-01-6Trichloroethene       50 U         124-48-1Dibromochloromethane       50 U         79-00-51,1,2-Trichloroethane       50 U         71-43-2Benzene       360         1061-02-6trans-1,3-Dichloropropene       50 U         75-25-2Bromoform       50 U         108-10-14-Methyl-2-Pentanone       50 U         591-78-61,1,2,2-Tetrachloroethane       50 U         108-88-31,1,2,2-Tetrachloroethane       50 U         108-88-3				į.
75-34-31,1-Dichloroethane       50 U         67-66-3Chloroform       50 U         107-06-21,2-Dichloroethane       50 U         78-93-32-Butanone       50 U         71-55-61,1,1-Trichloroethane       50 U         56-23-5Carbon Tetrachloride       50 U         75-27-4Bromodichloromethane       50 U         78-87-51,2-Dichloropropane       50 U         10061-01-5cis-1,3-Dichloropropene       50 U         79-01-6Trichloroethene       50 U         124-48-1Dibromochloromethane       50 U         79-00-51,1,2-Trichloroethane       50 U         71-43-2Benzene       360         1061-02-6trans-1,3-Dichloropropene       50 U         75-25-2Bromoform       50 U         108-10-14-Methyl-2-Pentanone       50 U         591-78-62-Hexanone       50 U         127-18-4Tetrachloroethene       50 U         79-34-51,1,2,2-Tetrachloroethane       50 U         108-88-3Toluene       50 U         108-90-7Chlorobenzene       17 J         100-41-4Ethylbenzene       50 U				
67-66-3				
107-06-21,2-Dichloroethane       50       U         78-93-32-Butanone       50       U         71-55-61,1,1-Trichloroethane       50       U         56-23-5Carbon Tetrachloride       50       U         75-27-4Bromodichloromethane       50       U         78-87-51,2-Dichloropropane       50       U         10061-01-5cis-1,3-Dichloropropene       50       U         79-01-6Trichloroethene       50       U         124-48-1Dibromochloromethane       50       U         79-00-51,1,2-Trichloroethane       50       U         71-43-2Benzene       360       U         1061-02-6trans-1,3-Dichloropropene       50       U         75-25-2Bromoform       50       U         108-10-1Bromoform       50       U         107-18-4				ľ
78-93-32-Butanone       50 U         71-55-61,1,1-Trichloroethane       50 U         56-23-5Carbon Tetrachloride       50 U         75-27-4Bromodichloromethane       50 U         78-87-51,2-Dichloropropane       50 U         10061-01-5cis-1,3-Dichloropropene       50 U         79-01-6Trichloroethene       50 U         124-48-1Dibromochloromethane       50 U         79-00-51,1,2-Trichloroethane       50 U         71-43-2Benzene       360         10061-02-6trans-1,3-Dichloropropene       50 U         75-25-2Bromoform       50 U         108-10-14-Methyl-2-Pentanone       50 U         127-18-4Tetrachloroethene       50 U         79-34-51,1,2,2-Tetrachloroethane       50 U         108-88-3Toluene       50 U         108-90-7Chlorobenzene       17 J         100-41-4Ethylbenzene       50 U				-
71-55-61,1,1-Trichloroethane       50 U         56-23-5Carbon Tetrachloride       50 U         75-27-4Bromodichloromethane       50 U         78-87-51,2-Dichloropropane       50 U         10061-01-5cis-1,3-Dichloropropene       50 U         79-01-6Trichloroethene       50 U         124-48-1Dibromochloromethane       50 U         79-00-51,1,2-Trichloroethane       50 U         71-43-2Benzene       360         10061-02-6trans-1,3-Dichloropropene       50 U         75-25-2Bromoform       50 U         108-10-14-Methyl-2-Pentanone       50 U         591-78-62-Hexanone       50 U         127-18-4Tetrachloroethene       50 U         79-34-51,1,2,2-Tetrachloroethane       50 U         108-88-3Toluene       50 U         108-90-7Chlorobenzene       17 J         100-41-4Ethylbenzene       50 U				
56-23-5				
75-27-4				
78-87-51,2-Dichloropropane       50 U         10061-01-5cis-1,3-Dichloropropene       50 U         79-01-6Trichloroethene       50 U         124-48-1Dibromochloromethane       50 U         79-00-51,1,2-Trichloroethane       50 U         71-43-2Benzene       360         10061-02-6trans-1,3-Dichloropropene       50 U         75-25-2Bromoform       50 U         108-10-14-Methyl-2-Pentanone       50 U         591-78-62-Hexanone       50 U         127-18-4Tetrachloroethene       50 U         79-34-51,1,2,2-Tetrachloroethane       50 U         108-88-3Toluene       50 U         108-90-7Chlorobenzene       17 J         100-41-4Ethylbenzene       50 U				
10061-01-5cis-1,3-Dichloropropene       50 U         79-01-6Trichloroethene       50 U         124-48-1Dibromochloromethane       50 U         79-00-51,1,2-Trichloroethane       50 U         71-43-2Benzene       360         10061-02-6trans-1,3-Dichloropropene       50 U         75-25-2Bromoform       50 U         108-10-14-Methyl-2-Pentanone       50 U         591-78-62-Hexanone       50 U         127-18-4Tetrachloroethene       50 U         79-34-51,1,2,2-Tetrachloroethane       50 U         108-88-3Toluene       50 U         108-90-7Chlorobenzene       17 J         100-41-4Ethylbenzene       50 U				Į.
79-01-6Trichloroethene       50 U         124-48-1Dibromochloromethane       50 U         79-00-51,1,2-Trichloroethane       50 U         71-43-2Benzene       360         10061-02-6trans-1,3-Dichloropropene       50 U         75-25-2Bromoform       50 U         108-10-14-Methyl-2-Pentanone       50 U         591-78-62-Hexanone       50 U         127-18-4Tetrachloroethene       50 U         79-34-51,1,2,2-Tetrachloroethane       50 U         108-88-3Toluene       50 U         108-90-7Chlorobenzene       17 J         100-41-4Ethylbenzene       50 U				_
124-48-1Dibromochloromethane       50 U         79-00-5				1 -
79-00-51,1,2-Trichloroethane       50 U         71-43-2Benzene       360         10061-02-6trans-1,3-Dichloropropene       50 U         75-25-2Bromoform       50 U         108-10-14-Methyl-2-Pentanone       50 U         591-78-62-Hexanone       50 U         127-18-4Tetrachloroethene       50 U         79-34-51,1,2,2-Tetrachloroethane       50 U         108-88-3Toluene       50 U         108-90-7Chlorobenzene       17 J         100-41-4Ethylbenzene       50 U				
71-43-2Benzene       360         10061-02-6trans-1,3-Dichloropropene       50         75-25-2Bromoform       50         108-10-14-Methyl-2-Pentanone       50         591-78-62-Hexanone       50         127-18-4Tetrachloroethene       50         79-34-51,1,2,2-Tetrachloroethane       50         108-88-3Toluene       50         108-90-7Chlorobenzene       17         100-41-4Ethylbenzene       50				-
10061-02-6trans-1,3-Dichloropropene       50 U         75-25-2Bromoform       50 U         108-10-14-Methyl-2-Pentanone       50 U         591-78-62-Hexanone       50 U         127-18-4Tetrachloroethene       50 U         79-34-51,1,2,2-Tetrachloroethane       50 U         108-88-3Toluene       50 U         108-90-7Chlorobenzene       17 J         100-41-4Ethylbenzene       50 U				U
75-25-2Bromoform       50 U         108-10-14-Methyl-2-Pentanone       50 U         591-78-62-Hexanone       50 U         127-18-4Tetrachloroethene       50 U         79-34-51,1,2,2-Tetrachloroethane       50 U         108-88-3Toluene       50 U         108-90-7Chlorobenzene       17 J         100-41-4Ethylbenzene       50 U				
108-10-14-Methyl-2-Pentanone       50 U         591-78-62-Hexanone       50 U         127-18-4Tetrachloroethene       50 U         79-34-51,1,2,2-Tetrachloroethane       50 U         108-88-3Toluene       50 U         108-90-7Chlorobenzene       17 J         100-41-4Ethylbenzene       50 U			50	Ū
591-78-62-Hexanone       50 U         127-18-4Tetrachloroethene       50 U         79-34-51,1,2,2-Tetrachloroethane       50 U         108-88-3Toluene       50 U         108-90-7Chlorobenzene       17 J         100-41-4Ethylbenzene       50 U				U
127-18-4Tetrachloroethene       50 U         79-34-51,1,2,2-Tetrachloroethane       50 U         108-88-3Toluene       50 U         108-90-7Chlorobenzene       17 J         100-41-4Ethylbenzene       50 U	108-10-1	4-Methyl-2-Pentanone	50	U
79-34-51,1,2,2-Tetrachloroethane       50 U         108-88-3Toluene       50 U         108-90-7Chlorobenzene       17 J         100-41-4Ethylbenzene       50 U	591-78-6	2-Hexanone	50	U
108-88-3Toluene       50 U         108-90-7Chlorobenzene       17 J         100-41-4Ethylbenzene       50 U	127-18-4	Tetrachloroethene	50	U
108-88-3Toluene       50 U         108-90-7Chlorobenzene       17 J         100-41-4Ethylbenzene       50 U	79-34-5 <del>-</del> -	1,1,2,2-Tetrachloroethane	50	U
100-41-4Ethylbenzene50 U			50	U
	108-90-7	Chlorobenzene	17	J
	100-41-4	Ethylbenzene	50	U
			50	Ū
1330-20-7Xylene (Total) 16 J				
540-59-01,2-Dichloroethene (total) 50 U				1 -
, =		,,		

FORM I VOA

ACSGWMW44-09MS

Lah Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944480

Sample wt/vol: 500.0 (g/mL) ML Lab File ID:

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Received: 06/10/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

319-84-6	0.050 0.44 0.43 0.41 0.050 0.050 1.0 0.0037 1.1 0.10 0.0049 0.10 1.1 0.50 0.065 0.070 0.050 0.050	JPB U JP U JP U JP U JP U JP U JP
5103-74-2gamma-Chlordane 8001-35-2Toxaphene 12674-11-2Aroclor-1016	0.050 5.0 1.0	ט ט ט ט ט ט

ACSGWMW44-09MSD

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Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944479

Sample wt/vol: 500.0 (g/mL) ML Lab File ID:

% Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_ Date Received: 06/10/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

319-84-6-----alpha-BHC 0.050 U 319-85-7-----beta-BHC 0.0065 JPB 319-86-8-----delta-BHC 0.050 U 58-89-9-----gamma-BHC (Lindane)\_\_\_\_\_ 0.43 76-44-8-----Heptachlor 0.41 309-00-2-----Aldrin 0.36 1024-57-3-----Heptachlor epoxide 0.050  $|\overline{U}|$ 959-98-8-----Endosulfan I 0.050 U 60-57-1-----Dieldrin 1.0 0.0034 | 丁 72-55-9-----4,4'-DDE 72-20-8-----Endrin 1.1 0.10 U 33213-65-9----Endosulfan II 72-54-8-----4,4'-DDD 0.0059 J 1031-07-8-----Endosulfan sulfate 0.10 U 50-29-3-----4,4'-DDT 1.172-43-5-----Methoxychlor 0.50 U 53494-70-5----Endrin ketone 0.057 JP 7421-93-4-----Endrin aldehyde 0.058 JP 5103-71-9----alpha-Chlordane 0.050 U 5103-74-2----gamma-Chlordane 0.050 U 5.0 U 8001-35-2----Toxaphene 1.0 U 12674-11-2----Aroclor-1016 2.0 U 11104-28-2----Aroclor-1221 1.0 U 11141-16-5-----Aroclor-1232 1.0 U 53469-21-9----Aroclor-1242 12672-29-6-----Aroclor-1248 1.0 U 11097-69-1----Aroclor-1254 1.0 U 11096-82-5-----Aroclor-1260 1.0 0

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW45-09

I.-b Name: COMPU~HEM

Contract: OLM03-REVS

b Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 944740

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: c2r44740a57

Level: (low/med) LOW

Date Received: 06/11/99

% Moisture: not dec.

Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Aliquot Volume: (uL

Soil Extract Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L Number TICs found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3.	TRIMETHYLBENZENE TRIMETHYLBENZENE SEMI TCL	20.73 21.16 23.84	198 53	J J
4				
<b>.</b>				
11. 12. 13.				
15. 16. 17. 18.				
20. 21. 22.				
23. 24. 25. 26.				
27. 28. 29.				
30				

ACSGWMW45-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 944740

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: GH044740A70

Level: (low/med) LOW

Date Received: 06/11/99

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_

Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 07/21/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

108-95-2Phenol	5	J
111-44-4bis(2-Chloroethyl)ether	5	Ĵ
95-57-82-Chlorophenol	10	_
541-73-11,3-Dichlorobenzene	10	
106-46-71,4-Dichlorobenzene	2	J
95-50-11,2-Dichlorobenzene	4	J
95-48-72-Methylphenol	10	_
108-60-12,2'-oxybis(1-Chloropropane)	7	J
106-44-54-Methylphenol	10	
	10	
621-64-7N-Nitroso-di-n-propylamine	10	
67-72-1Hexachloroethane		-
98-95-3Nitrobenzene	10	
78-59-1Isophorone	2	J
88-75-52-Nitrophenol	10	
105-67-92.4-Dimethylphenol	10	
111-91-1bis(2-Chloroethoxy)methane	10	l
120-83-22,4-Dichlorophenol	10	_
120-82-11,2,4-Trichlorobenzene	10	
91-20-3Naphthalene	97	E
106-47-84-Chloroaniline	10	U
87-68-3Hexachlorobutadiene	10	U
59-50-74-Chloro-3-methylphenol	10	U
91-57-62-Methylnaphthalene	2	J
77-47-4Hexachlorocyclopentadiene	10	U
88-06-22,4,6-Trichlorophenol	10	U
95-95-42,4,5-Trichlorophenol	25	t
91-58-72-Chloronaphthalene	10	lυ
88-74-42-Nitroaniline	25	
131-11-3Dimethylphthalate	10	
208-96-8Acenaphthylene	10	
606-20-22,6-Dinitrotoluene	10	1
99-09-23-Nitroaniline	25	-
83-32-9Acenaphthene	10	i e
ob 52 5 Acenaphenene		
		i

FORM I SV-1

Lab Name: COMPUCHEM Contract: OLM03-REVS ACSGWMW45-09

Do Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944740

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044740A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: decanted: (Y/N) \_\_\_ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/21/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

COMPOUND CAS NO. (ug/L or ug/Kg) UG/L 0 51-28-5-----2,4-Dinitrophenol 25 U 100-02-7----4-Nitrophenol 25 U 10 U 132-64-9------Dibenzofuran 121-14-2-----2,4-Dinitrotoluene 10 U 84-66-2-----Diethylphthalate 10 U 10 U 7005-72-3-----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 25 U 25 U 100-01-6-----4-Nitroaniline 534-52-1-----4,6-Dinitro-2-methylphenol 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 U 87-86-5----Pentachlorophenol 25 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8------Carbazole 10 U 84-74-2-----Di-n-butyIphthalate 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1----3,3'-Dichlorobenzidine 10 U 56-55-3-----Benzo(a) anthracene 10 U 218-01-9------Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 10 U 117-84-0-----Di-n-octylphthalate 10 U 205-99-2----Benzo (b) fluoranthene 10 U 207-08-9-----Benzo(k) fluoranthene 10 U 50-32-8-----Benzo(a)pyrene 10 U 193-39-5-----Indeno(1,2,3-cd)pyrene\_ 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 U 10 U 191-24-2-----Benzo(g,h,i)perylene —

CONCENTRATION UNITS:

FORM I SV-2

(1) - Cannot be separated from Diphenylamine

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW45-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU

Case No.: 34200 SAS No.:

SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 944740

Sample wt/vol:

1000 (q/mL) ML

Lab File ID:

GH044740A70

Level: (low/med)

LOW

Date Received: 06/11/99

% Moisture:

decanted: (Y/N)

Date Extracted:06/14/99

Concentrated Extract Volume:

Date Analyzed: 07/21/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH:

1000 (uL)

Number TICs found: 23

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	. ~ .
======================================	UNKNOWN TRIMETHYLBENZENE TRIMETHYLBENZENE SUBSTITUTED BENZENE UNKNOWN UNKNOWN TETRAMETHYLBENZENE UNKNOWN	6.91 7.12 7.44 8.06 8.26 8.38 8.54 8.75 8.86 9.06 9.55 9.77 10.12 10.29 10.51 11.63 11.83 12.52 12.61 14.36 15.01	27 170 80 12 10 13 17 7 18 7 20 18 66 27 140 8 67 34	J J J J J J J J J J J J J J J J J J J
28. 29. 30.				

FORM I SV-TIC

ACSGWMW45-09RE

Lab Name: COMPUCHEM Contract: OLM03-REVS

Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 944740

Sample wt/vol: 970 (g/mL) ML

Lab File ID: GR044740A66

Level: (low/med) LOW

Date Received: 06/11/99

% Moisture: decanted: (Y/N)\_\_\_

Date Extracted: 07/07/99 29 days

Concentrated Extract Volume:

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO. COMPOUND

pH:

1000 (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

108-95-2Phenol	31	
111-44-4bis(2-Chloroethyl)ether	4	- 1
95-57-82-Chlorophenol	10	
541-73-11,3-Dichlorobenzene		Ū
106-46-71,4-Dichlorobenzene		J
95-50-11,2-Dichlorobenzene	4	J
95-48-72-Methylphenol	10	
108-60-12,2'-oxybis(1-Chloropropane)	7	J
106-44-54-Methylphenol	10	ן ט
621-64-7N-Nitroso-di-n-propylamine	10)	U )
67-72-1Hexachloroethane	10	ט
98-95-3Nitrobenzene	10	ט
78-59-1Isophorone	10	ט
88-75-52-Nitrophenol	10	U
105-67-92,4-Dimethylphenol	10	U [
111-91-1bis(2-Chloroethoxy)methane	10	ט
120-83-22,4-Dichlorophenol	10	Ū
120-82-11,2,4-Trichlorobenzene	10	U
91-20-3Naphthalene	11	
106-47-84-Chloroaniline	10	Ū
87-68-3Hexachlorobutadiene	10	
59-50-74-Chloro-3-methylphenol	10	U
91-57-62-Methylnaphthalene	0.5	J.
77-47-4Hexachlorocyclopentadiene	10	
88-06-22,4,6-Trichlorophenol	10	
95-95-42,4,5-Trichlorophenol	26	_
91-58-72-Chloronaphthalene	10	
88-74-42-Nitroaniline	26	_
131-11-3Dimethylphthalate	10	
208-96-8Acenaphthylene	10	
606-20-22,6-Dinitrotoluene	10	_
99-09-23-Nitroaniline	26	_
83-32-9Acenaphthene	10	!
os-sz-yAcenaphenene	10	U
	l	l

FORM I SV-1

ACSGWMW45-09RE

Contract: OLM03-REVS Lab Name: COMPUCHEM

SDG No.: 00003 Lab Code: COMPU Case No.: 34200 SAS No.:

Lab Sample ID: 944740 Matrix: (soil/water) WATER

970 (g/mL) ML Lab File ID: GR044740A66 Sample wt/vol:

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: decanted: (Y/N) Date Extracted:07/07/99

Concentrated Extract 'Volume: 1000(uL) Date Analyzed: 07/10/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5----2,4-Dinitrophenol 26 U 100-02-7-----4-Nitrophenol 26 U 132-64-9-----Dibenzofuran 10 U 121-14-2----2,4-Dinitrotoluene 10 U 84-66-2-----Diethylphthalate 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7----Fluorene 10 U 100-01-6-----4-Nitroaniline 26 U 534-52-1-----4,6-Dinitro-2-methylphenol 26 U 86-30-6----N-nitrosodiphenylamine\_(1)\_\_\_ 10 U 101-55-3-----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 U 87-86-5-----Pentachlorophenol 26 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8-----Carbazcle 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate
91-94-1-----3,3'-Dichlorobenzidine 10 U 10 U 56-55-3-----Benzo(a) anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 10 U 117-84-0-----Di-n-octylphthalate\_\_\_ 10 U 205-99-2----Benzo(b)fluoranthene 10 U 207-08-9-----Benzo(k)fluoranthene 10 U 50-32-8-----Benzo (a) pyrene 10 U 193-39-5-----Indeno(1,2,3-cd)pyrene 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 U 191-24-2----Benzo(g,h,i)perylene\_\_\_ 10 U (i) - Cannot be separated from Diphenylamine

FORM I SV-2

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW45-09RE

Lab Name: COMPUCHEM

Contract: OLM03-REVS

b Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 944740

Sample wt/vol:

970 (g/mL) ML

Lab File ID: GR044740A66

Level: (low/med)

LOW

Date Received: 06/11/99

% Moisture:

decanted: (Y/N)

Date Extracted: 07/07/99

Concentrated Extract Volume:

Date Analyzed: 07/10/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: \_\_\_\_

1000(uL)

Number TICs found: 26

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

1. ETHYLMETHYLBENZENE	1	NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
25. UNKNOWN 15.13 3 J 26. 50-06-6 PHENOBARBITAL 15.54 3 NJ 27.	1. 2. 3. 4. 56. 78. 9. 10. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	0-12-0	TRIMETHYLBENZENE TRIMETHYLBENZENE TRIMETHYLBENZENE SUBSTITUTED BENZENE DIETHYLBENZENE UNKNOWN ETHYLDIMETHYLBENZENE SUBSTITUTED BENZENE UNKNOWN UNKNOWN UNKNOWN NAPHTHALENE, 1-METHYL- DIMETHYLBENZOIC ACID DIMETHYLBENZOIC ACID UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN SUBSTITUTED BENZENE UNKNOWN SUBSTITUTED BENZENE	5.88 6.19 6.52 6.82 6.93 7.16 7.19 7.63 8.05 10.61 10.75 11.33 11.64 11.73 11.92 12.87	3 72 41 33 52 34 28 38 68 23 45 22 3	מממממממממממממממממממ
	25. 26. 5 27.	0-06-6	UNKNOWN	15.13	3	1 -

EPA SAMPLE NO.

Q

ACSGWMW45-09

Contract: OLM03-REVS Lab Name: COMPUCHEM

SDG No.: 00003 Lab Code: COMPU Case No.: 34200 SAS No.:

Matrix: (soil/water) WATER Lab Sample ID: 944740

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_ Date Received: 06/11/99

Date Extracted:06/15/99 5 days Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 07/06/99 21 days Concentrated Extract Volume: 10000(uL)

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH: \_\_\_\_ Sulfur Cleanup: (Y/N) N

> CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND

0.0032 JP 0.0078 JP 319-84-6-----alpha-BHC 319-85-7-----beta-BHC 319-86-8-----delta-BHC 0.050 U 58-89-9----gamma-BHC (Lindane) 0.050 U 76-44-8------Heptachlor 0.050 U 309-00-2-----Aldrin 0.050 U 1024-57-3-----Heptachlor epoxide 0.050 U 959-98-8-----Endosulfan I\_\_\_\_\_ 0.050 U 0.10 U 60-57-1-----Dieldrin 72-55-9-----4,4'-DDE 0.10 U 72-20-8-----Endrin 0.10 U 33213-65-9----Endosulfan II 0.10 U 72-54-8-----4,4'-DDD 0.10 U 1031-07-8-----Endosulfan sulfate 0.10 U 50-29-3-----4,4'-DDT 0.10 U 72-43-5-----Methoxychlor\_ 0.50 U 53494-70-5-----Endrin ketone\_ 0.10 U 7421-93-4-----Endrin aldehyde 0.10 U 5103-71-9----alpha-Chlordane 0.050 U 0.050 U 5103-74-2----gamma-Chlordane 5.0 U 8001-35-2-----Toxaphene 12674-11-2----Aroclor-1016 1.0 U 11104-28-2----Aroclor-1221 2.0 U 11141-16-5----Aroclor-1232 1.0 U 53469-21-9-----Aroclor-1242 1.0 U 12672-29-6-----Aroclor-1248 1.0 U 11097-69-1-----Aroclor-1254 1.0 U 11096-82-5----Aroclor-1260 1.0 U

## l INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO
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•	•	INORGANIC A	ANALYSES DATA S	SHEET	,
Lab Name: COMPI	JCHEM		Contract: II	LM04.0	ACSGWMW45-09
Lab Code: COMPI	J_ Cas	se No.: 342	200_ SAS No.:	:	SDG No.: 00003_
Matrix (soil/wa	ater): WATE	₹ .		Lab Sampl	e ID: 944740
Level (low/med)	): LOW			Date Rece	ived: 06/11/99
% Solids:	0.0	)			
Cor	ncentration	Units (ug/	L or mg/kg dry	/ weight):	UG/L
Color Before:	CAS No.  7429-90-5 7440-36-0 7440-38-2 7440-41-7 7440-43-9 7440-47-3 7440-47-3 7440-48-4 7440-50-8 7439-95-4 7439-95-4 7439-96-5 7439-97-6 7440-02-0 7440-02-0 7440-02-0 7440-23-5 7440-28-0 7440-28-0 7440-66-6  COLORLESS  COLORLESS		Concentration  311 2.1 43.5 84.2 0.26 0.50 88900 64.1 3.0 5.0 16600 1.8 23300 285 0.05 48.3 5430 3.1 0.30 94000 4.1 1.1 1.1 5.66 4.7	B	M P P P P P P P P P P P P P P P CV P P P P
Comments:				•	

FORM I - IN

ILM04.0

#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM

EPA SAMPLE NO.

MW46-09

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Lab Sample ID: 945260 Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045260A57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:\_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

> CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) ug/L

CAS NO. Q

74-87-3Chloromethane	10	ָ ט
74-83-9Bromomethane	10	Ū
75-01-4Vinyl Chloride	10	
75-00-3Chloroethane	10	
75-09-2Methylene Chloride	3	
67-64-1Acetone	10	
75-15-0Carbon Disulfide	10	
75-35-41,1-Dichloroethene	10	_
75-34-31,1-Dichloroethane	10	
67-66-3Chloroform	10	_
		-
107-06-21,2-Dichloroethane	10	-
78-93-32-Butanone	10	_
71-55-61,1,1-Trichloroethane	10	
56-23-5Carbon Tetrachloride	10	
75-27-4Bromodichloromethane	10	_
78-87-51,2-Dichloropropane	10	U
10061-01-5cis-1,3-Dichloropropene	10	U
79-01-6Trichloroethene	10	U
124-48-1Dibromochloromethane	10	U
79-00-51,1,2-Trichloroethane	10	U
71-43-2Benzene	10	U
10061-02-6trans-1,3-Dichloropropene	10	U
75-25-2Bromoform	10	l
108-10-14-Methyl-2-Pentanone	10	Ū
591-78-62-Hexanone	10	Ū
127-18-4Tetrachloroethene	10	-
79-34-51,1,2,2-Tetrachloroethane	10	l
108-88-3Toluene	10	F
108-90-7Chlorobenzene	10	
100-41-4Ethylbenzene	10	
100-41-4	10	_
1330-20-7Xylene (Total)	10	ı
540-59-01,2-Dichloroethene (total)		U
540-59-01,2-Dichioloechene (colai)	. 10	١٠
	l	l

FORM I VOA

#### 1EVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Soil Aliquot Volume: \_\_\_\_ (uL

ab Name: COMPUCHEM	Contract: OLM03-REVS
Lab Code: COMPU Case No.: 34200	SAS No.: SDG No.: 00005
Matrix: (soil/water) WATER	Lab Sample ID: 945260
Sample wt/vol: 5.0 (g/mL) mL	Lab File ID: cn045260a57
Level: (low/med) LOW .	Date Received: 06/12/99
% Moisture: not dec.	Date Analyzed: 06/24/99
GC Column: EQUITY624 ID: 0.53 (mm)	Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L Number TICs found: 1

Soil Extract Volume: (uL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 108-20-3 2. 3. 4.	DIISOPROPYL ETHER	10.72	10	NJ
5. 6. 7. 8. 9.				
11. 12. 13. 14.				
16. 17. 18.				
20. 21. 22. 23. 24.				
26. 27. 28.				
29.				

MW46-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945260

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045260B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: decanted: (Y/N) Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAD NO.	00.11.001.2	(ug/L or ug/kg/ oc	·, –
95-57-8 541-73-1	bis(2-Chloroethy 2-Chlorophenol 1,3-Dichlorobenze	ene	10 U 10 U 10 U 10 U 10 U
95-50-1 95-48-7 108-60-1 106-44-5 621-64-7	1,4-Dichlorobenze 1,2-Dichlorobenze 2-Methylphenol 2,2'-oxybis(1-Chlorobenze 4-Methylphenol N-Nitroso-di-n-pa	loropropane)	10 U 10 U 10 U 10 U 10 U
98-95-3 78-59-1 88-75-5 105-67-9 111-91-1	HexachloroethaneNitrobenzeneIsophorone?-Nitrophenol2,4-Dimethylphenobis(2-Chloroethor	ol	10 U 10 U 10 U 10 U 10 U 10 U
120-82-1 91-20-3 106-47-8 87-68-3	2,4-Dichlorophend 1,2,4-Trichlorobe Naphthalene 4-Chloroaniline Hexachlorobutadie 4-Chloro-3-methy	enzeneene	10 U 10 U 10 U 10 U 10 U
91-57-6 77-47-4 88-06-2 95-95-4 91-58-7	2-Methylnaphthale Hexachlorocyclope 2,4,6-Trichloropl 2,4,5-Trichloropl 2-Chloronaphthale	ene entadiene henol henol	10 U 10 U 10 U 25 U 10 U 25 U
131-11-3 208-96-8 606-20-2 99-09-2	Dimethylphthalate Acenaphthylene 2,6-Dinitrotolue 3-Nitroaniline Acenaphthene	<del></del>	10 U 10 U 10 U 25 U 10 U

FORM I SV-1

MW46-09

Lab Name: COMPUCHEM Contrast: OLM03-REVS MW46-09
Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945260

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045260B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

injection volume: 2.0(db) Dilucton ractor. 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-52,4-Dinitrophenol	25 U
100-02-74-Nitrophenol	25 U
132-64-9Dibenzofuran	10 U
121-14-22,4-Dinitrotoluene	-
84-66-2Diethylphthalate	10 U
7005-72-34-Chlorophenyl-phenylether	10 U
86-73-7Fluorene	10 U
100-01-64-Nitroaniline	25 U
534-52-14,6-Dinitro-2-methylphenol	25 U
86-30-6N-nitrosodiphenylamine (1)	10 U
101-55-34-Bromophenyl-phenylether	10 U
118-74-1Hexachlorobenzene	10 U
87-86-5Pentachlorophenol	25 U
85-01-8Phenanthrene	10 U
120-12-7Anthracene	. 10 U
86-74-8Carbazole	10 U
84-74-2Di-n-butylphthalate	īolū
206-44-0Fluoranthene	10 U
129-00-0	10 U
85-68-7Butylbenzylphthalate	10 U
01 04 1 2 2/ Dighlorohongiding	
91-94-13,3 <sup>7</sup> -Dichlorobenzidine	10 U
56-55-3Benzo (a) anthracene	10 U
218-01-9Chrysene	10 U
117-81-7bis(2-Ethylhexyl)phthalate	10 U
117-84-0Di-n-octylphthalate	10 U
205-99-2Benzo (b) fluoranthene	10 U
207-08-9Benzo(k) fluoranthene	10 U
50-32-8Benzo(a) pyrene	10 U
193-39-5Indeno(1,2,3-cd)pyrene	10 U
53-70-3Dibenzo(a, h) anthracene	10 U
191-24-2Benzo(g,h,i)perylene	10 0
Delizo (g/11/1/peryrene	10
) - Cannot be separated from Diphenylamine	l

FORM I SV-2

# 1F SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW46-09
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Lab Name: COMPUCHE.:	(	Contract: OLM	103-REVS  _	<del></del>
Lab Code: COMPU	Case No.: 34200	SAS No.:	SDG 1	To.: 00005
Matrix: (soil/water)	WATER	Lab	Sample ID:	945260
Sample wt/vol:	1000 (g/mL) ML	Lab	File ID:	GH045260B70
Level: (low/med)	LOW	Date	Received:	06/12/99
% Moisture:	decanted: (Y/N)_	Date	Extracted:	06/16/99
Concentrated Extract	Volume: 1000(u	ıL) Date	Analyzed:	07/07/99

Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH: \_\_\_

Number TICs found: 6

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Dilution Factor: 1.0

\ <del></del>				<u> </u>
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	0
=======================================		======	==========	=====
1.	SULFUR	10.04	2	J
2.	UNKNOWN	12.07		J
3.	SULFUR	12.14	2	J
4.	UNKNOWN	12.96	3	J
5. 10544-50-0	SULFUR, MOL. (S8)	13.79 15.90	6	NJ NJ
6. 10546-70-0	BENZAMIDE, N-PROPYL-	15.90	5	NO
7		l		<del></del>
8		<del></del>		
10				
1 11.				
1 12.				
14		<u> </u>		· · · · · · · · · · · · · · · · · · ·
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16		\ <del></del>		
17.			<del></del>	
LJ.				
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1 21.				
1 44.				
( 43.				
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25. 26.		\ <u> </u>		\
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20.				
29				
30				
l			<u></u>	l

FORM I SV-TIC

MW46-09

➡ab Name: COMPUCHEM Contract: OLM03-REVS b Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005 Matrix: (soil/water) WATER Lab Sample ID: 945260 Sample wt/vol: 1050 (q/mL) ML Lab File ID: % Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_ Date Received: 06/12/99 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99 Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/17/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 319-84-6-----alpha-BHC 0.048 U 319-85-7-----beta-BHC 0.048 U 319-86-8-----delta-BHC 0.048 U 58-89-9----gamma-BHC (Lindane)\_\_\_\_\_ 0.048 U 76-44-8------Heptachlor 0.048 U 309-00-2-----Aldrin 0.048 U 1024-57-3-----Heptachlor epoxide 0.048 U 959-98-8-----Endosulfan I 0.048 U 60-57-1-----Dieldrin 0.095 U 72-55-9-----4,4'-DDE 0.095 U 72-20-8-----Endrin 0.095 U 33213-65-9-----Endosulfan II 0.095 U 72-54-8-----4,4'-DDD 0.095 U 1031-07-8-----Endosulfan sulfate 0.095 U 0.095 U 50-29-3-----4 4'-DDT 72-43-5-----Methoxychlor 0.48 U 53494-70-5-----Endrin ketone 0.095 U 7421-93-4----Endrin aldehyde 0.095 U 5103-71-9----alpha-Chlordane 0.048 U 5103-74-2----gamma-Chlordane 0.048 U 8001-35-2-----Toxaphene 4.8 U 12674-11-2----Aroclor-1016 0.95 U 11104-28-2----Aroclor-1221 1.9 U 11141-16-5----Aroclor-1232 0.95 U 0.95 U 53469-21-9-----Aroclor-1242

12672-29-6-----Aroclor-1248

11097-69-1-----Aroclor-1254

11096-82-5-----Aroclor-1260

0.95 U

0.95 U

0.95 U

# 1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

∟ab Name: COMP	UCHEM		Contract: II	LM04.0	MW46-09
	<del></del> _			<del></del>	SDG No.: 00005_
ian code: comp	Ca.	110 34.	LUU_ DAD NO.	•	DDG NO 00005_
Matrix (soil/w	ater): WATE	R		Lab Samp	ole ID: 945260
evel (low/med	): LOW_			Date Rec	eived: 06/12/99
Solids:	0.	0			
Co	ncentration	Units (ug,	/L or mg/kg dry	y weight)	: UG/L
	CAS No.	Analyte	Concentration	C Q	М
					-
	7429-90-5		39.2		P_ P_ P_
	7440-36-0	Antimony_	1.8		-   <u>P</u> _
	7440-38-2	Arsenic_	2.0		-   P_
	7440-39-3	Barium	146		
•	7440-41-7				P P P P P
	7440-43-9		0.50		-   P_
	7440-70-2	Calcium	135000		_  P
	7440-47-3	Chromium_	0.90		_  P
	7440-48-4	Cobalt	0.60		_  P_
	7440-50-8	Copper	1.1		P_ P_ P_
	7439-89-6	Iron	33000		_  P_
	7439-92-1	Lead	1.0		_  P_
		Magnesium	37500		P
	7439-96-5		1810		P_
		Mercury	0.05		$\left  \overline{CV} \right $
	7440-02-0	Nickel	1.0		P_
	7440-09-7	Potassium	798		P_
	7782-49-2	Selenium_	3.1	U	P_
	7440-22-4	Silver	0.30	U	-   P_
	7440-23-5	Sodium	73400		P
	7440-28-0	Thallium_	4.1	ט	
	7440-62-2		1.8	В	P   P
	7440-66-6	Zinc	2.2	В	-   p -
		Cyanide	4.7		CA
		l			
Color Before:	COLORLESS	Clari	ty Before: CLE	AR_	Texture:
Color After:	COLORLESS	Clari	ty After: CLE	AR_	Artifacts:
Comments:					
			·	······································	
			· · · · · · · · · · · · · · · · · · ·		

FORM I - IN

ILM04.0

Sample wt/vol: 5.0 (g/mL) mL

CN045256A57

Name: COMPUCHEM Contract: OLM03-REVS MW47-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945256

Maclix. (Soli) water) Walth has bample in. 943230

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_\_(uL

Lab File ID:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L

74-87-3-----Chloromethane 10 U 74-83-9-----Bromomethane 10 U 10 U 75-01-4-----Vinyl Chloride 10 U 75-00-3-----Chloroethane 75-09-2-----Methylene Chloride 2 J 67-64-1-----Acetone 10 U 75-15-0-----Carbon Disulfide 10 U 75-35-4-----1,1-Dichloroethene 10 U 75-34-3----1,1-Dichloroethane 10 0 67-66-3-----Chloroform 10 U 107-06-2-----1,2-Dichloroethane 10 U 78-93-3----2-Butanone 10 U 71-55-6-----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 U 75-27-4-----Bromodichloromethane 10 U 78-87-5-----1,2-Dichloropropane 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2-----Benzene 10061-02-6-----trans-1,3-Dichloropropene 10 U 10 U 75-25-2-----Bromoform 10 U 108-10-1----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U 127-18-4-----Tetrachloroethene 10 U 79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3----Toluene 10 U 108-90-7-----Chlorobenzene 10 U 100-41-4-----Ethylbenzene 10 U 10 U 10 U 540-59-0----1,2-Dichloroethene (total) 1.0

#### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW47-09

÷ - 1-	a - 1 -	COMPIL	Cooo	NTo	24200	CAC No	ana	37 -	00005
Lap	Code:	COMPU	case	NO.:	34200	SAS No.:	SDG	NO.:	00005

Matrix: (soil/water) WATER

Lab Sample ID: 945256

Contract: OLM03-REVS

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cn045256a57

Level: (low/med)

LOW

Date Received: 06/12/99

% Moisture: not dec.

Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm)

Lab Name: COMPUCHEM

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_\_(uL

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPCUND NAME	RT	EST. CONC.	Q
1				
4				
5. 6.				
8.				
10.				
12. 13. 14.				
15. 16.				
17. 18. 19.				
21.				
22. 23. 24.				<del></del>
25. 26.				
27				
29.				

FORM I VOA-TIC

b Name: COMPTCHEM Contract: OLM03-REVS MW47-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945256

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045256B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: decanted: (Y/N) Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

			<del></del>
108-95-2Phenol		10	บ
111-44-4bis(2-Chloroet	hyl)ether	10	
95-57-82-Chlorophenol		10	U
541-73-11,3-Dichlorobe	nzene	10	U
106-46-71,4-Dichlorobe	nzene	10	U
95-50-11,2-Dichlorobe	nzene	10	U
95-48-72-Methylphenol		10	U
108-60-12,2'-oxybis(1-	Chloropropane)	10	U
106-44-54-Methylphenol		10	U
621-64-7N-Nitroso-di-n	-propylamine	10	U
67-72-1Hexachloroetha	ne	10	U
98-95-3Nitrobenzene		10	Ŭ
78-59-1Isophorone		10	U
88-75-52-Nitrophenol		10	U
105-67-92,4-DimethylpF	enol	10	U
1:1-91-1bis(2-Chloroet	hoxy) methane	10	U
120-83-22,4-Dichloroph	enol —	10	U
120-82-11,2,4-Trichlor	obenzene	10	U
91-20-3Naphthalene		10	U
106-47-84-Chloroanilin	e	10	ט
87-68-3Hexachlorobuta	diene	10	U
59-50-7	hylphenol	10	ט
91-57-62-Methylnaphth	alene	10	U .
77-47-4Hexachlorocycl	opentadiene	10	U
88-06-22,4,6-Trichlor	ophenol	10	U
95-95-42,4,5-Trichlor	ophenol	25	U
91-58-72-Chloronaphth	alene	10	ט
88-74-42-Nitroaniline		25	
131-11-3Dimethylphthal	ate	10	_
208-96-8Acenaphthylene	!	10	-
606-20-22,6-Dinitrotol	uene	10	_
99-09-23-Nitroaniline		25	
83-32-9Acenaphthene		10	_
			"
<del></del>			١

FORM I SV-1

Lab Name: COMPUCHEM Contract: OLM03-REVS MW47-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945256

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045256B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

CONCENTRATION UNITS:

51-28-52,4-Dinitrophenol 100-02-74-Nitrophenol 132-64-9Dibenzofuran 121-14-22,4-Dinitrotoluene 84-66-2Diethylphthalate 7005-72-34-Chlorophenyl-phenylether 86-73-7Fluorene 100-01-64-Nitroaniline 534-52-14,6-Dinitro-2-methylphenol 86-30-6N-nitrosodiphenylamine (1) 101-55-34-Bromophenyl-phenylether 118-74-1Hexachlorobenzene 87-86-5Pentachlorophenol 85-01-8Phenanthrene 120-12-7Anthracene 86-74-8Carbazole 84-74-2Di-n-butylphthalate 206-44-0Fluoranthene 129-00-0	25 25 10 10 10 10 25 25 10 10 10 10 10 10	מממממממממממממ ממממממממממממממממ
		-
		1 -
86-30-6N-nitrosodiphenylamine (1)		, –
101-55-34-Bromophenyl-phenylether		_
		1
	- 1	
	_	
		-
	_[ 10	U
		U
85-68-7Butylbenzylphthalate	10	U
91-94-13,3'-Dichlorobenzidine	10	U
56-55-3Benzo(a)anthracene	10	U
218-01-9Chrysene	10	ש
117-81-7bis(2-Ethylhexyl)phthalate	10	U
117-84-0Di-n-octylphthalate	10	Ū
205-99-2Benzo(b) fluoranthene	10	
207-08-9Benzo(k) fluoranthene	10	ĺΰ
50-32-8Benzo(a)pyrene	10	Ū
193-39-5Indeno(1,2,3-cd)pyrene	-  10	ΙŬ
53-70-3Dibenzo(a,h)anthracene	- 10	ιŭ
191-24-2Benzo(g,h,i)perylene	- 10	1 -
	-	
	- I	l

(i) - Cannot be separated from Diphenylamine

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TENTATIVELY IDENTIFIED COMPOUNDS

MW47-09

b Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945256

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045256B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: decanted: (Y/N) Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

CONCENTRATION UNITS: Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	~
1. 2. 3.	UNKNOWN	5.14	3	J
4.				
5. 6. 7.				
8. 9. 10.				
12.				
13 14 15				
16. 17. 18.				
20.				
21. 22. 23.				
24				
27. 28.				
29. 30.				

FORM I SV-TIC

- 1		~~				MW47-09
Lаb	Name:	COMPUCHEM	•	Contract:	OLM03-REVS	

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945256 Sample wt/vol: 1020 (g/mL) ML Lab File ID:

decanted: (Y/N)\_\_\_\_ % Moisture: Date Received: 06/12/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

319-84-6alpha-BHC	0.049	_
319-85-7beta-BHC	0.049	Ŭ
319-86-8delta-BHC	0.049	<b>ט</b>
58-89-9gamma-BHC (Lindane)	0.049	ט
76-44-8Heptachlor	0.049	U
309-00-2Aldrin	0.049	
1024-57-3Heptachlor epoxide	0.049	
959-98-8Endosulfan I	0.049	
60-57-1Dieldrin	0.098	
72-55-94,4'-DDE	0.098	
72-20-8Endrin	0.098	
33213-65-9Endosulfan II		
	0.098	
72-54-84,4'-DDD	0.098	
1031-07-8Endosulfan sulfate	0.098	
50-29-34,4'-DDT	0.098	
72-43-5Methoxychlor	0.49	
53494-70-5Endrin ketone	0.098	Ŭ
7421-93-4Endrin aldehyde	0.098	Ū
5103-71-9alpha-Chlordane	0.049	U
5103-74-2gamma-Chlordane	0.049	U
8001-35-2Toxaphene	4.9	U
12674-11-2Aroclor-1016	0.98	U
11104-28-2Aroclor-1221	2.0	
11141-16-5Aroclor-1232	0.98	
53469-21-9Aroclor-1242	0.98	
12672-29-6Aroclor-1248	0.98	
11097-69-1Aroclor-1254	0.98	
11096-82-5Aroclor-1260	0.98	_
110000101 1200	0.90	
	l <del></del> l	

## INORGANIC ANALYSES DATA SHEET

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MW47-09	ļ

EPA SAMPLE NO.

						1 -	1
Lab Name: COMP	UCHEM		Contract: Il	LM(	04.0		MW47-09
Lab Code: COMP	U_ Cas	se No.: 342	SAS No.	: _		SI	OG No.: 00005_
Matrix (soil/w	ater): WATE	R		La	ab Sampl	le I	ID: 9 <b>4</b> 5256
Level (low/med	): LOW_			Da	ate Rece	eive	ed: 06/12/99
% Solids:	0.0	0					
Co	ncentration	Units (ug	/L or mg/kg dry	/ V	veight):	: UG	G/L
	7429-90-5	Aluminum_	Concentration	<del>-</del> B	Q ·	M P_	
	7440-36-0 7440-38-2 7440-39-3 7440-41-7		2.3 2.0 6.2 0.28	U B B		P - 4	

Cadmium 0.50 U 7440-43-9 P 7440-70-2 Calcium 7680 7440-47-3 Chromium  $3.2|\overline{B}$ P. P 0.74 7440-48-4 Cobalt P 7440-50-8 Copper 1.4 В 7439-89-6 P\_ 172 Iron 1.6 B P 7439-92-1 Lead P 7439-95-4 Magnesium 2480 В P\_ 7439-96-5 Manganese 5.4 7439-97-6 Mercury\_ 0.05 U CV Nickel Ρ 7440-02-0 В 1.8 7440-09-7 Potassium 613 В P P\_ Selenium 3.1 7782-49-2  $\overline{0.58}$  B  $P^{-}$ 7440-22-4 Silver P<sup>-</sup> 7440-23-5 Sodium 4900 В  $P^{-}$ 7440-28-0 Thallium 4.1 U Vanadium -7440-62-2 0.70 B P ΡŢ 7440-66-6 Zinc 1.1 U ั4.7 ป  $C\overline{A}$ Cyanide

Color Before:	COLORLESS	Clarity	Before:	CLEAR_	Texture:
Color After:	COLORLESS	Clarity	After:	CLEAR_	Artifacts:
Comments:					
Duplicate_(	MW47-09D)				

FORM I - IN

#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0

Lab Na	ame:	COMPUCHEM	Contract:	OLM03-REVS	MW47-09MS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945239

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045239A57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

COMPOUND

CAS NO.

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

CAD NO.	COMPOUND (ug/E of	ug/kg/ ug/h	Q
74-87-3	Chloromethane	10	U
	Bromomethane		Ūΰ
	Vinyl Chloride	<del></del>	Üΰ
	Chloroethane		1
		10	-
	Methylene Chloride		
67-64-1			1 .
	Carbon Disulfide		_
	1,1-Dichloroethene	46	
	1,1-Dichloroethane		Ū
67-66-3			
	1,2-Dichloroethane		
78-93-3			U
	1,1,1-Trichloroethane		U .
	Carbon Tetrachloride		U
	Bromodichloromethane	10	י ֹּד
78-87-5	1,2-Dichloropropane	10	U
.10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	46	;
124-48-1	Dibromochloromethane	10	) ਹਿ
79-00-5	1,1,2-Trichloroethane		ט  ט
71-43-2		49	
	trans-1,3-Dichloropropene		
75-25-2		10	
	4-Methyl-2-Pentanone	10	
591-78-6		i	1
	Tetrachloroethene	10	\$
	1,1,2,2-Tetrachloroethane		
108-88-3		48	
	Chlorobenzene	48	
	Ethylbenzene	10	
100-41-4		10	
	Xylene (Total)	10	1
	1,2-Dichloroethene (total		1 '
540-59-0	I, Z-DICHIOLOECHEHE (COCAL	'—  ·	′  ′
l	<del></del>		-

FORM I VOA

OLM03.0

EPA SAMPLE NO.

MW47-09MSD

Contract: OLM03-REVS b Name: COMPUCHEM

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945240

Lab File ID: CN045240A57 Sample wt/vol: 5.0 (q/mL) mL

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_(uL Soil Extract Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L CAS NO. COMPOUND 0 74-87-3-----Chloromethane 10 U 74-83-9-----Bromomethane 10 U 75-01-4-----Vinyl Chloride 10 U 75-00-3-----Chloroethane 10 U 75-09-2----Methylene Chloride 2 J 67-64-1-----Acetone 1 J 75-15-0-----Carbon Disulfide 10 U 75-35-4----1,1-Dichloroethene 46 10 U 75-34-3-----1,1-Dichloroethane 10 U 67-66-3-----Chloroform 107-06-2----1, 2-Dichloroethane 10 U 78-93-3----2-Butanone 10 U 71-55-6----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride\_ 10 U 75-27-4-----Bromodichloromethane 10 U 78-87-5-----1,2-Dichloropropane\_ 10 U 10061-01-5----cis-1,3-Dichloropropene\_ 10 U 79-01-6----Trichloroethene 47 124-48-1-----Dibromochloromethane 10 ប៊ 79-00-5----1,1,2-Trichloroethane 10 U 71-43-2-----Benzene 49 10061-02-6----trans-1,3-Dichloropropene 10 | U 75-25-2-----Bromoform 10 U 108-10-1-----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U 10 U 127-18-4-----Tetrachloroethene 79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 48 108-90-7-----Chlorobenzene 48 10 U 100-41-4-----Ethylbenzene 10 U 10 U 10 U

			•		MW47-09MS
Lab	Name:	COMPUCHEM	Contract:	OLM03-REVS	

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Lab Sample ID: 945243 Matrix: (soil/water) WATER

1000 (g/mL) ML Lab File ID: GH045243B70 Sample wt/vol:

Date Received: 06/12/99 Level: (low/med) LOW

% Moisture: \_\_\_\_\_ decanted: (Y/N) Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

pH: \_\_\_

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND (ug/L or u	ig/kg/ UG/L	Q ·
108-95-2 111-44-4 95-57-8 541-73-1 106-46-7 95-50-1 95-48-7 108-60-1 106-44-5 621-64-7 98-95-3 78-59-1 111-91-1 120-83-2 111-91-1 120-83-2 111-91-1 120-83-2 150-47-8 91-50-7 91-57-6 91-57-6 91-58-7 88-74-4 88-74-4	Phenolbis(2-Chloroethyl)ether2-Chlorophenol1,3-Dichlorobenzene1,4-Dichlorobenzene1,2-Dichlorobenzene2-Methylphenol2,2'-oxybis(1-Chloropropane4-MethylphenolN-Nitroso-di-n-propylamineHexachloroethane1sophorone2,4-Dimethylphenol2,4-Dimethylphenol2,4-Dichlorophenol2,4-TrichlorobenzeneNaphthalene4-Chloro-3-methylphenol2-Methylnaphthalene4-Chloro-3-methylphenol2,4,5-Trichlorophenol2,4,5-Trichlorophenol2,4,5-Trichlorophenol2-Chloronaphthalene2-Nitroaniline		49 10 48 10 0 10 10 10 10 10 10 10 10 10 10 10 1
91-58-7 88-74-4 131-11-3 208-96-8 606-20-2 99-09-2	2-Chloronaphthalene 2-Nitroaniline		10 U 25 U

FORM I SV-1

OLM03.0

MW47-09MS

Contract: OLM03-REVS ab .ame: COMPUCHE

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945243

1000 (g/mL) ML Lab File ID: GH045243B70 Sample wt/vol:

Date Received: 06/12/99 Level: (low/med) LOW

Date Extracted:06/16/99 % Moisture: decanted: (Y/N)\_

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH:

> CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND

MW47-09MSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00005

Matrix: (soil/water) WATER

Lab Sample ID: 945244

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: GH045244B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_

Date Extracted: 06/16/99

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 07/07/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N

pH:

CAS NO.	COMPOUND	(ug/L or ug/K		Q .
100-02-7 132-64-9 121-14-2 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 87-86-5 85-01-8 120-12-7 86-74-8 129-00-0 85-68-7 206-44-0 129-00-0 85-68-7 218-01-9 117-81-7 117-84-0 205-99-2 207-08-9 50-32-8 193-39-5 53-70-3 191-24-2	4-Nitroaniline4,6-Dinitro-2N-nitrosodiphe4-BromophenylHexachlorobenzPentachlorophePhenanthreneCarbazoleDi-n-butylphthFluoranthenePyreneButylbenzylpht3,3'-DichlorohBenzo(a) anthraChryseneDi-n-octylphthBenzo(b) fluoraBenzo(a) pyreneBenzo(a) pyreneIndeno(1,2,3-cDibenzo(a,h) and and and and and and and and and and	Luene  ate L-phenylether  methylphenol enylamine (1) phenylether zene enol  malate  chalate benzidine acene  kyl)phthalate nalate anthene enthene enthracene erylene	7 1 4 1 2 2 2 3 3 1 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1) - Cannot be	separated from D	rbuenyramine		•

MW47-09MSD

Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945244

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045244B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: decanted: (Y/N) Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	(15,	, 5	. ~
108-95-2	Dhanol	55	
	bis(2-Chloroethyl)ether	10	<del>U</del>
95-57-8	2-Chlorophenol	70	ا ا
	1,3-Dichlorobenzene	10	U I
	1,4-Dichlorobenzene	39	
95-50-1	1,2-Dichlorobenzene	10	$ \overline{U} $
95-48-7	2-Methylphenol	10	1 1
	2,2'-oxybis(1-Chloropropane)	10	1 '
106-44-5	4-Methylphenol	10	1 -
	N-Nitroso-di-n-propylamine	31	
67-72-1	Hexachloroethane	10	<del>U</del>
98-95-3	Nitrobenzene	10	1 - 1
78-59-1		10	1 - 1
88-75-5	2-Nitrophenol	10	
	2,4-Dimethylphenol	10	
111-91-1	bis(2-Chloroethoxy) methane	10	1 1
120-93-2	2,4-Dichlorophenol	10	
120-03,2	1,2,4-Trichlorobenzene	43	1
91-20-3		10	<del>U</del>
106-47-8	4-Chloroaniline	10	1 -
	Hexachlorobutadiene	10	1
	4-Chloro-3-methylphenol	74	1 1
91-57-6	2-Methylnaphthalene	10	$ _{\overline{U}}$
77-47-4	Hexachlorocyclopentadiene	10	1 - 1
88-06-2	2,4,6-Trichlorophenol	10	1 - 1
95-95-4	2,4,5 Trichlorophenol	25	
91-59-7	2,4,5-111ch1010phen01 2-Chloronaphthalene	-	1 1
91-30-7	2-Chioronaphcharene 2-Nitroaniline	10	
	Dimethylphthalate	25	
T2T-TT-2	Dimethyiphthalate Acenaphthylene	10	
606 30-3	Acenaphthylene 2,6-Dinitrotoluene	10	1 1
00 00 2	2,6-Dinitrocoluene 3-Nitroaniline	10	
83-32-9	3-NICIOdHIIIHe	25	Ū
03-32-3	Acenaphene	. 44	
		. l <u>.:</u>	I

MW47-09MS

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Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945245

Sample wt/vol: 1130 (g/mL) ML Lab File ID:

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_ Date Received: 06/14/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

319-84-6alpha-BHC	0.044	U
319-85-7beta-BHC	0.044	Ū
319-86-8delta-BHC	0.044	
58-89-9gamma-BHC (Lindane)	0.38	
76-44-8Heptachlor	0.42	
309-00-2Aldrin	- 0.41	
1024-57-3Heptachlor epoxide	0.044	
959-98-8Endosulfan I	- 0.044	
60-57-1Dieldrin	0.86	١
72-55-94,4'-DDE	0.0028	JP
72-20-8Endrin	_ 1 _ 1 _ 1	
33213-65-9Endosulfan II	- 0.088	·
72-54-84,4'-DDD	0.0037	
1031-07-8Endosulfan sulfate	- 0.0037	U
50-29-34,4'-DDT	- 0.92	~
72-43-5Methoxychlor	$- \begin{vmatrix} 0.92 \\ 0.44 \end{vmatrix}$	
72-43-5		
53494-70-5Endrin ketone	0.030	
7421-93-4Endrin aldehyde	0.030	
5103-71-9alpha-Chlordane	0.044	-
5103-74-2gamma-Chlordane	0.044	
8001-35-2Toxaphene	4.4	
12674-11-2Aroclor-1016	0.88	
11104-28-2Aroclor-1221	1.8	_
11141-16-5Aroclor-1232	0.88	
53469-21-9Aroclor-1242	0.88	
12672-29-6Aroclor-1248	0.88	
11097-69-1Aroclor-1254	0.88	-
11096-82-5Aroclor-1260	0.88	ן ט
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Name: COMPUCHEM Contract: OLM03-REVS MW47-09MSD

Lab Code: COMPU

Case No.: 34200 SAS No.:

SDG No.: 00005

Matrix: (soil/water) WATER

Lab Sample ID: 945246

Sample wt/vol:

1020 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 06/14/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted:06/16/99

Concentrated Extract Volume: 10000(uL)

Date Analyzed: 07/06/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS. NO.

COMPOUND

(ug/L or ug/Kg) UG/L

	<del>i</del>	
319-84-6	0.049 0.049 0.049 0.34 0.34 0.049 0.74 0.0023 0.83 0.098 0.098 0.098 0.098	UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU
		J
	1	TT
		_
	T .	
50-29-34,4'-DDT		
		_
	T .	
5103-71-9aipha-Chiordane 5103-74-2gamma-Chlordane	0.049	
8001-35-2Toxaphene	4.9	
12674-11-2Aroclor-1016	0.98	
11104-28-2Aroclor-1221	2.0	U
11141-16-5Aroclor-1232	0.98	1
53469-21-9Aroclor-1242	0.98	-
12672-29-6Aroclor-1248 11097-69-1Aroclor-1254	0.98 0.98	
11097-69-1Aroctor-1254 11096-82-5Aroctor-1260	I I	1
11100101 1200	0.56	١
	' <del></del>	· ———

MW48-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944469

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: CN044469B57

Level: (low/med)

Date Received: 06/10/99

% Moisture: not dec. \_\_\_\_

LOW

Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 10.0

Soil Aliquot Volume: \_\_\_\_(uL)

Soil Extract Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/L

Q

		ļ
Chloromethane	100	U
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Carbon Tetrachloride		r.
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cis-1 3-Dichloropropene		
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Toluene		-
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		1
1.2-Dichloroethene (total)	· · · · · · · · · · · · · · · · · · ·	1
	200	]
	BromomethaneVinyl ChlorideChloroethaneMethylene ChlorideAcetoneCarbon Disulfide1,1-Dichloroethene1,1-DichloroethaneChloroform1,2-Dichloroethane2-Butanone1,1,1-TrichloroethaneCarbon TetrachlorideBromodichloromethane1,2-Dichloropropanecis-1,3-DichloropropeneTrichloroetheneDibromochloromethane1,1,2-Trichloroethane1,1,2-TrichloroethaneBenzenetrans-1,3-DichloropropeneBromoform4-Methyl-2-Pentanone2-HexanoneTetrachloroethene1,1,2,2-TetrachloroethaneTolueneTolueneChlorobenzeneEthylbenzeneStyreneXylene (Total)1,2-Dichloroethene (total)	Vinyl Chloride 360Chloroethane 360Methylene Chloride 55Acetone 20Carbon Disulfide 1001,1-Dichloroethene 1001,1-Dichloroethane 1001,2-Dichloroethane 1001,1,1-Trichloroethane 1002-Butanone 1001,1,1-Trichloroethane 100Carbon Tetrachloride 100Bromodichloromethane 100T,2-Dichloropropane 100Trichloroethene 100Trichloroethene 100Trichloroethene 100Trichloroethene 100Trichloroethane 1001,1,2-Trichloroethane 1001,1,2-Trichloropropene 100Trans-1,3-Dichloropropene 100Benzene 4900Tetrachloroethene 1002-Hexanone 1002-Hexanone 1001,1,2,2-Tetrachloroethane 100Toluene 100Toluene 100Chlorobenzene 100Styrene 100Styrene 100Xylene (Total) 100

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW48-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944469

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: cn044469b57

% Moisture: not dec. \_\_\_\_\_

Date Received: 06/10/99

Level: (low/med) LOW

Date Analyzed: 06/23/99

Number TICs found: 1

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Aliquot Volume: \_\_\_\_(uL)

Soil Extract Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	1 -
1. 873-94-9 2.	CYCLOHEXANONE, 3,3,5-TRIMETH	1	75	NJ ———
4 5				
6. 7. 8.				
9 10				
11. 12. 13.				
15 15 16.				
18. 18.				
19 20 21				
22				
26. 26.				
27. 28. 29.				
30				

EPA SAMPLE NO.

MW48-09DL

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944469

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: CR044469A57

Level: (low/med) LOW

Date Received: 06/10/99

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 50.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND

(ug/L or ug/Kg) ug/L

<del></del>		
74-87-3Chloromethane	500	
74-83-9Bromomethane	500	U
75-01-4Vinyl Chloride	500	U
75-00-3Chloroethane	290	DJ
75-09-2Methylene Chloride	500	U
67-64-1Acetone	500	U
75-15-0Carbon Disulfide	500	U
75-35-41,1-Dichloroethene	500	U
75-34-31,1-Dichloroethane	500	Ū
67-66-3Chloroform	500	U
107-06-21,2-Dichloroethane	500	U
78-93-32-Butanone	500	บ
71-55-61,1,1-Trichloroethane	500	U
56-23-5Carbon Tetrachloride	500	U
75-27-4Bromodichloromethane	500	U
78-87-51,2-Dichloropropane	500	บ
10061-01-5cis-1,3-Dichloropropene	500	U
79-01-6Trichloroethene	500	U
124-48-1Dibromochloromethane	500	U
79-00-51,1,2-Trichloroethane	500	U
71-43-2Benzene	5700	D
10061-02-6trans-1,3-Dichloropropene	500	U
75-25-2Bromoform	500	ប
108-10-14-Methyl-2-Pentanone	500	ע
591-78-62-Hexanone	57	DJB
127-18-4Tetrachloroethene	500	U
79-34-51,1,2,2-Tetrachloroethane	500	U
108-88-3Toluene	500	U
108-90-7Chlorobenzene	500	U
100-41-4Ethylbenzene	500	U .
100-42-5Styrene	500	U
1330-20-7Xylene (Total)	500	ַ
540-59-01,2-Dichloroethene (total)	500	ַ ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
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### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW48-09DL

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944469

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cr044469a57

Level: (low/med)

Date Received: 06/10/99

LOW

% Moisture: not dec.

Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm)

Number TICs found: 0

Dilution Factor: 50.0

Soil Aliquot Volume: \_\_\_\_ (uL)

Soil Extract Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

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CAS NUMBER	COMPOUND NAME	RT	·	Q
		==   ======	=======================================	====
1				
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Lab Name: COMPUCHEM Contract: OLM03-REVS MW48-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944469

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044469A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: decanted: (Y/N) Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

108-95-2Phenol       110 E         111-44-4bis (2-Chloroethyl) ether       18         95-57-82-Chlorophenol       10 U         541-73-11,3-Dichlorobenzene       10 U         106-46-71,4-Dichlorobenzene       10 U         95-50-11,2-Dichlorobenzene       10 U         95-48-72-Methylphenol       10 U         108-60-12,2'-oxybis(1-Chloropropane)       10 U         106-44-54-Methylphenol       10 U	
111-44-4bis (2-Chloroethyl) ether       18         95-57-82-Chlorophenol       10         541-73-11,3-Dichlorobenzene       10         106-46-71,4-Dichlorobenzene       10         95-50-11,2-Dichlorobenzene       10         95-48-72-Methylphenol       10         108-60-12,2'-oxybis(1-Chloropropane)       10         106-44-54-Methylphenol       10	
95-57-82-Chlorophenol       10         541-73-11,3-Dichlorobenzene       10         106-46-71,4-Dichlorobenzene       10         95-50-11,2-Dichlorobenzene       10         95-48-72-Methylphenol       10         108-60-12,2'-oxybis(1-Chloropropane)       10         106-44-54-Methylphenol       10	
541-73-11,3-Dichlorobenzene       10       U         106-46-71,4-Dichlorobenzene       10       U         95-50-11,2-Dichlorobenzene       10       U         95-48-72-Methylphenol       10       U         108-60-12,2'-oxybis(1-Chloropropane)       10       U         106-44-54-Methylphenol       10       U	
106-46-71,4-Dichlorobenzene       10 U         95-50-11,2-Dichlorobenzene       10 U         95-48-72-Methylphenol       10 U         108-60-12,2'-oxybis(1-Chloropropane)       10 U         106-44-54-Methylphenol       10 U	
95-50-11,2-Dichlorobenzene 10 U 95-48-72-Methylphenol 10 U 108-60-12,2'-oxybis(1-Chloropropane) 10 U 106-44-54-Methylphenol 10 U	
95-48-72-Methylphenol	
108-60-12,2'-oxybis(1-Chloropropane) 10 U 106-44-54-Methylphenol 10 U	
106-44-54-Methylphenol 10 U	
621-64-7N-Nitroso-di-n-propylamine 10 U	
67-72-1Hexachloroethane 10 U	
98-95-3Nitrobenzene 10 U	- 1
78-59-1Isophorone 10 U	
88-75-52-Nitrophenol 10 U	- 1
105-67-92,4-Dimethylphenol 3 J	
111-91-1bis(2-Chloroethoxy)methane 10 U	
120-83-22,4-Dichlorophenol	
120-82-11;2,4-Trichlorobenzene 10   U	
91-20-3Naphthalene 10 U	
106-47-84-Chloroaniline	
87-68-3Hexachlorobutadiene 10 U	
59-50-74-Chloro-3-methylphenol 10 U	
91-57-62-Methylnaphthalene10 U	
77-47-4Hexachlorocyclopentadiene 10 U	
88-06-22,4,6-Trichlorophenol 10 U	
95-95-42,4,5-Trichlorophenol 25 U	
91-58-72-Chloronaphthalene10 U	
88-74-42-Nitroaniline 25 U	
131-11-3Dimethylphthalate10 U	
208-96-8Acenaphthylene	
606-20-22,6-Dinitrotoluene10 U	1
99-09-23-Nitroaniline25 U	
83-32-9Acenaphthene	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW48-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944469

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044469A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_

	CAS NO.	COMPOUND	CONCENTRATIO		Q
	100-02-7 132-64-9 121-14-2 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 87-86-5 85-01-8 120-12-7 86-74-8 206-44-0 129-00-0 85-68-7 91-94-1 56-55-3 218-01-9 117-81-7 117-84-0 205-99-2 207-08-9 50-32-8 193-39-5 191-24-2	4-Nitroanilin4,6-Dinitro-2N-nitrosodiph4-BromophenylHexachlorobenPentachlorophPhenanthreneAnthraceneCarbazoleDi-n-butylphtFluoranthenePyreneButylbenzylph3,3'-DichloroBenzo(a) anthr	luene ate l-phenylether e-methylphenol enylamine (1) -phenylether zene enol  halate thalate benzidine acene xyl)phthalate halate anthene anthene e cd)pyrene nthracene erylene	10 10 10 25 25 10 10 25 10	ממממממממממממממממממממממממ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW48-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944469

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044469A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: decanted: (Y/N) Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

CONCENTRATION UNITS: Number TICs found: 30 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST'. CONC.	Q
8. 515-30-0	ALDOL UNKNOWN TRICHLOROPROPENE ALDOL CYCLOHEXANOL, 3,3,5-TRIMETHY ETHANE, 1,1'-OXYBIS[2-ETHOXY UNKNOWN BENZENEACETIC ACID, .ALPHA BICYCLO[2.2.1]HEPTAN-2-ONE, ETHYL PYROPHOSPHATE UNKNOWN CAMPHCR UNKNOWN	7.77 7.92 8.00 8.15 8.31 8.48 8.87 8.96 9.58 9.84 9.06	22 5 23 3 15 3 9 2 3 6 4 10 4 3 22 72 7 2 9 13 5 2 3 6	リ

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### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW48-09DL

Contract: OLM03-REVS Name: COMPUCHEM

Lap Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944469

Lab File ID: GD044469B64 Sample wt/vol: 1000 (g/mL) ML

Level: (low/med) LOW; Date Received: 06/10/99

Date Extracted:06/11/99 % Moisture: decanted: (Y/N)

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/99

Dilution Factor: 2.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH: \_\_

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

108-95-2Phenol		87 D	
111-44-4bis(2-Chloroethyl)ether		16 DJ	
95-57-82-Chlorophenol		20   U	
541-73-11,3-Dichlorobenzene		20   U	1
106-46-71,4-Dichlorobenzene		20   U	1
95-50-11,2-Dichlorobenzene		20   U	
95-48-72-Methylphenol	<b>,</b>	20   U	
108-60-12,2'-oxybis(1-Chloropropane)		20 U	
106-44-54-Methylphenol		20   U	
621-64-7N-Nitroso-di-n-propylamine		20   U	
67-72-1Hexachloroethane		20   U	
98-95-3Nitrobenzene	``	20   U	
78-59-1Isophorone		20   U	- 1
88-75-52-Nitrophenol		20 U	
105-67-92,4-Dimethylphenol		20 U	
111-91-1bis(2-Chloroethoxy) methane		20 U	}
120-83-22,4-Dichlorophenol		20 U	
120-82-11,2,4-Trichlorobenzene		20 U	
91-20-3Naphthalene		20 U	-
106-47-84-Chloroaniline		20 U	
87-68-3Hexachlorobutadiene		20 U	
59-50-74-Chloro-3-methylphenol		20 U	1
91-57-62-Methylnaphthalene	1	20 U	. ]
77-47-4Hexachlorocyclopentadiene	I and the second	20 U	i
88-06-22,4,6-Trichlorophenol		20 U	
95-95-42,4,5-Trichlorophenol	l .	50 U	
91-58-72-Chloronaphthalene		20 U	
88-74-42-Nitroaniline		50 U	-
131-11-3Dimethylphthalate		20 U	İ
208-96-8Acenaphthylene		20 U	.
606-20-22,6-Dinitrotoluene		20 U	1
99-09-23-Nitroaniline		50 U	-
83-32-9Acenaphthene	•	20 U	
1 contaphene	}	2010	1
	I		- 1

MW48-09DL

Coi ract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944469

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GD044469B64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: decanted: (Y/N) Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/99

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

Lab Name: COMPUCHEM

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

		· : .		
100-02-7 132-64-9 121-14-2 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 118-74-1 87-86-5 120-12-7 86-74-8 206-44-0 129-00-0 85-68-7	4-Nitroaniline4,6-Dinitro-2-methylphenolN-nitrosodiphenylamine (1)4-Bromophenyl-phenyletherHexachlorobenzenePentachlorophenolPhenanthreneCarbazoleDi-n-butylphthalateFluoranthenePyreneButylbenzylphthalate3,3'-Dichlorobenzidine		50 50 20 20 20 20 50 20 20 20 20 20 20 20 20 20 20 20 20 20	מממממממממממממממ
118-74-1 87-86-5	Hexachlorobenzene		20 50	Ŭ U
120-12-7 86-74-8 84-74-2	Anthracene		20 20 20	U U
129-00-0 85-68-7 91-94-1	Pyrene		20 20	U U
218-01-9 117-81-7 117-84-0 205-99-2	Chrysene bis(2-Ethylhexyl)phthalate Di-n-octylphthalate Benzo(b)fluoranthene		20 20 20 20	U U U
50-32-8 193-39-5 53-70-3	Benzo(k) fluoranthene Benzo(a) pyrene Indeno(1,2,3-cd) pyrene Dibenzo(a,h) anthracene		20 20 20 20	
191-24-2	Benzo(g,h,i)peryleneseparated from Diphenylamine		20	<u> </u>

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EPA SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW48-09DL

b Name: COMPU HEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944469

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GD044469B64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: decanted: (Y/N) Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/99

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: \_\_\_

Number TICs found: 18 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
======================================	TRICHLOROPROPENE ALDOL CYCLOHEXANOL, 3,3,5-TRIMETHY UNKNOWN ETHANE, 1,1'-OXYBIS[2-ETHOXY UNKNOWN UNKNOWN UNKNOWN BICYCLO[2.2.1]HEPTAN-2-ONE, UNKNOWN BENZOIC ACID, 3-CHLORO- UNKNOWN UNKNOWN UNKNOWN UNKNOWN TALBUTAL UNKNOWN UNKNOWN UNKNOWN UNKNOWN	6.31 7.55 7.69	150 140 12 14 7 4 10 5 8 7 28 48 5 5	JD JD NJD

### 1D PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Code: COMPU Case No.: 34200 SAS No.:

CAS NO. COMPOUND

53469-21-9----Aroclor-1242

12672-29-6----Aroclor-1248

11097-69-1-----Aroclor-1254

11096-82-5----Aroclor-1260

Sample wt/vol:

EPA SAMPLE NO.

MW48-09

0

0.95 U lυ

U

0.95

0.95

0.95

SDG No.: 00002

Lab Name: COMTUCHEM Contract: OLM03-REVS

1050 (g/mL) ML Lab File ID:

(ug/L or ug/Kg) UG/L

Lab Sample ID: 944469 Matrix: (soil/water) WATER

% Moisture: decanted: (Y/N) Date Received: 06/10/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/12/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) N pH: \_\_\_\_

CONCENTRATION UNITS:

319-84-6-----alpha-BHC 0.011 JP 319-85-7----beta-BHC 0.048 U 319-86-8-----delta-BHC 0.048 U 58-89-9-----gamma-BHC (Lindane) 0.048 U 76-44-8------Heptachlor 0.0018 JP 309-00-2-----Aldrin 0.048 U 1024-57-3-----Heptachlor epoxide 0.048 U 959-98-8-----Endosulfan I\_\_\_\_\_ 0.048 U 60-57-1-----Dieldrin 0.095 U 0.095 U 72-55-9-----4,4'-DDE 72-20-8-----Endrin 0.095 U 33213-65-9----Endosulfan II 0.095 U 72-54-8-----4,4'-DDD 0.095 T 1031-07-8-----Endosulfan sulfate 0.095 U 50-29-3-----4,4'-DDT 0.095 U 72-43-5-----Methoxychlor 0.48 U 53494-70-5----Endrin ketone 0.095 U 7421-93-4----Endrin aldehyde 0.095 U 5103-71-9-----alpha-Chlordane 0.048 U 5103-74-2-----qamma-Chlordane 0.048 U 8001-35-2-----Toxaphene 4.8 U 12674-11-2----Aroclor-1016 0.95 U 1.9 U 11104-28-2----Aroclor-1221 11141-16-5-----Aroclor-1232 0.95 U

### 1 · INORGANIC ANALYSES DATA SHEET

P\_

P

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1.0 | U

12900

325

0.05 | Ū

14.8 B

4030 B

1.6 U

2.1 | 0

2.0 B

4.3 B

4.7 U

0.40 U

27500

	•	inondin'i e	MALLEL DES BIIII.			1	
Lab Name: COMPI	JCHEM		Contract: II	LM(	04.0	M	IW48-09
Lab Code: COMP	J_ Cas	se No.: 342	SAS No.	: _	· · · · · · · · · · · · · · · · · · ·	SD	G No.: 00002_
Matrix (soil/wa	ater): WATE	₹ .		Lá	ab Sampl	le I	D: 944469
Level (low/med)	LOW_	_	•	Da	ate Rece	eive	d: 06/10/99
% Solids:	0.0	D					
Cor	ncentration	Units (ug/	/L or mg/kg dry	/ V	veight):	' UG	:/L
	CAS No.	Analyte	Concentration			М	
	7429-90-5 7440-36-0	Aluminum_ Antimony_	119 1.8	В		P P	
	7440-38-2	Arsenic_	4.0	В		P_	
	7440-39-3	Barium	83.5			P_ P_	٠.
	7440-41-7	Beryllium				P_ P_	
•	7440-43-9 7440-70-2	Cadmium Calcium	0.20 84100			D	
	7440-70-2	Chromium	9.9	<del>_</del>		D-	•
	7440-48-4	Cobalt	1.9			P-	
	7440-50-8	Copper	2.3			D_ [	
	7439-89-6	Iron	15500			P-	· '

Color Before: COLORLESS Clarity Before: CLEAR\_ Texture: \_\_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

Comments:

7439-92-1

7439-95-4

7439-96-5

7439-97-6

7440-02-0

7440-09-7

7782-49-2

7440-22-4

7440-23-5

7440-28-0

7440-62-2

7440-66-6

Lead

Magnesium

Manganese

Potassium

Selenium

Thallium

Vanadium

Cyanide

Mercury\_

Nickel

Silver

Sodium

Zinc

FORM I - IN

ILM04.0

### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW49-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Case No.: 34200 SAS No.: Lab Code: COMPU SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945689

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045689B57

Date Received: 06/16/99 Level: (low/med) LOW

Date Analyzed: 06/30/99 % Moisture: not dec.

Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm)

Soil Extract Volume: \_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

74-87-3Chloromethane       10 U         74-83-9Bromomethane       10 U         75-01-4Vinyl Chloride       10 U         75-00-3Chloroethane       240 E         75-09-2Methylene Chloride       2 J         67-64-1				<del></del> ,
74-83-9Bromomethane       10       U         75-01-4Vinyl Chloride       10       U         75-09-3Chloroethane       240       E         75-09-2Methylene Chloride       2       J         67-64-1Acetone       9       JB         75-15-0	74-87-3- <b></b> Chl	oromethane	10	ט
75-01-4Vinyl Chloride       10 U         75-00-3Chloroethane       240 E         75-09-2Methylene Chloride       2 J         67-64-1Acetone       9 JB         75-15-0Carbon Disulfide       10 U         75-35-41,1-Dichloroethene       10 U         67-66-3Chloroform       10 U         107-06-21,2-Dichloroethane       10 U         78-93-32-Butanone       1 JB         71-55-61,1,1-Trichloroethane       10 U         75-27-4Bromodichloromethane       10 U         78-87-51,2-Dichloropropane       10 U         10061-01-5cis-1,3-Dichloropropene       10 U         79-01-6Trichloroethene       10 U         12-4-48-1Benzene       10 U         10061-02-6Trichloroethane       10 U         105-25-2Bromoform       10 U         108-10-1			10	ับ
75-00-3	75-01-4Vin	yl Chloride	10	ן ט
75-09-2Methylene Chloride       2         67-64-1Acetone       9         75-15-0Carbon Disulfide       10         75-35-41,1-Dichloroethene       10         75-34-31,1-Dichloroethane       10         107-06-21,2-Dichloroethane       10         107-06-21,2-Dichloroethane       1         78-93-32-Butanone       1         71-55-61,1,1-Trichloroethane       10         75-27-4Bromodichloromethane       10         78-87-51,2-Dichloropropane       10         10061-01-51,3-Dichloropropane       10         10061-01-51,1,2-Trichloroethane       10         104-48-1Dibromochloromethane       10         105-25-2Bromoform       10         108-10-14-Methyl-2-Pentanone       10         109-78-6			240	E
67-64-1	75-09-2- <b></b> -Met	hylene Chloride	2	J
75-35-41,1-Dichloroethene       10 U         75-34-31,1-Dichloroethane       10 U         67-66-3Chloroform       10 U         107-06-21,2-Dichloroethane       10 U         78-93-32-Butanone       1 JB         71-55-61,1,1-Trichloroethane       10 U         56-23-5Carbon Tetrachloride       10 U         75-27-4Bromodichloromethane       10 U         78-87-51,2-Dichloropropane       10 U         10061-01-5cis-1,3-Dichloropropene       10 U         79-01-6Trichloroethene       10 U         124-48-1Dibromochloromethane       10 U         79-00-51,1,2-Trichloroethane       10 U         1061-02-6trans-1,3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         79-34-51,1,2,2-Tetrachloroethane       10 U         108-88-3			9	JB
75-34-31,1-Dichloroethane       10 U         67-66-3Chloroform       10 U         107-06-21,2-Dichloroethane       10 U         78-93-32-Butanone       1 JB         71-55-61,1,1-Trichloroethane       10 U         56-23-5Carbon Tetrachloride       10 U         75-27-4Bromodichloromethane       10 U         78-87-51,2-Dichloropropane       10 U         10061-01-5Trichloroethane       10 U         79-01-6Trichloroethane       10 U         79-01-5Trichloroethane       10 U         79-00-5Trichloroethane       10 U         79-00-5Trichloroethane       10 U         79-00-5Trichloroethane       10 U         104-48-1Benzene       620 E         10061-02-6trans-1,3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-1	75-15-0Car	bon Disulfide	10	ן ט
67-66-3Chloroform       10 U         107-06-21, 2-Dichloroethane       10 U         78-93-32-Butanone       1 JB         71-55-61, 1, 1-Trichloroethane       10 U         56-23-5Carbon Tetrachloride       10 U         75-27-4Bromodichloromethane       10 U         78-87-51, 2-Dichloropropane       10 U         10061-01-5cis-1, 3-Dichloropropene       10 U         79-01-6Trichloroethane       10 U         124-48-1Dibromochloromethane       10 U         79-00-51, 1, 2-Trichloroethane       10 U         71-43-2Benzene       620 E         10061-02-6trans-1, 3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         107-18-4Tetrachloroethene       10 U         108-88-3Toluene       10 U         108-88-3Chlorobenzene       10 U         100-41-4Ethylbenzene       10 U         100-42-5	75-35-41,1	-Dichloroethene	10	ן ט
67-66-3Chloroform       10 U         107-06-21, 2-Dichloroethane       10 U         78-93-32-Butanone       1 JB         71-55-61, 1, 1-Trichloroethane       10 U         56-23-5Carbon Tetrachloride       10 U         75-27-4Bromodichloromethane       10 U         78-87-51, 2-Dichloropropane       10 U         10061-01-5cis-1, 3-Dichloropropene       10 U         79-01-6Trichloroethane       10 U         124-48-1Dibromochloromethane       10 U         79-00-51, 1, 2-Trichloroethane       10 U         71-43-2Benzene       620 E         10061-02-6trans-1, 3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         107-18-4Tetrachloroethene       10 U         108-88-3Toluene       10 U         108-88-3Chlorobenzene       10 U         100-41-4Ethylbenzene       10 U         100-42-5	75-34-31,1	-Dichloroethane	10	ן ט
78-93-32-Butanone       1 JB         71-55-61,1,1-Trichloroethane       10 U         56-23-5Carbon Tetrachloride       10 U         75-27-4Bromodichloromethane       10 U         78-87-51,2-Dichloropropane       10 U         1061-01-5cis-1,3-Dichloropropene       10 U         79-01-6Trichloroethene       10 U         124-48-1Dibromochloromethane       10 U         79-00-51,1,2-Trichloroethane       10 U         71-43-2Benzene       620 E         10061-02-6trans-1,3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         79-34-5Toluene       10 U         108-80-7Chlorobenzene       10 U         100-41-4Ethylbenzene       10 U         100-42-5Xylene       10 U	67-66-3Chl	oroform	10	ט
78-93-32-Butanone       1 JB         71-55-61,1,1-Trichloroethane       10 U         56-23-5Carbon Tetrachloride       10 U         75-27-4Bromodichloromethane       10 U         78-87-51,2-Dichloropropane       10 U         1061-01-5cis-1,3-Dichloropropene       10 U         79-01-6Trichloroethene       10 U         124-48-1Dibromochloromethane       10 U         79-00-51,1,2-Trichloroethane       10 U         71-43-2Benzene       620 E         10061-02-6trans-1,3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         79-34-5Toluene       10 U         108-80-7Chlorobenzene       10 U         100-41-4Ethylbenzene       10 U         100-42-5Xylene       10 U	107-06-21,2	-Dichloroethane	10	ี บ
56-23-5Carbon Tetrachloride       10 U         75-27-4Bromodichloromethane       10 U         78-87-51,2-Dichloropropane       10 U         10061-01-5cis-1,3-Dichloropropene       10 U         79-01-6Trichloroethene       10 U         124-48-1Dibromochloromethane       10 U         79-00-51,1,2-Trichloroethane       10 U         71-43-2Benzene       620 E         10061-02-6trans-1,3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         79-34-51,1,2,2-Tetrachloroethane       10 U         108-88-3Toluene       1 U         108-90-7Chlorobenzene       10 U         100-41-4Ethylbenzene       10 U         100-42-5Xylene       10 U          1336-20-7Xylene       10 U	78-93-32-B	utanone	1	JB
75-27-4Bromodichloromethane       10 U         78-87-51, 2-Dichloropropane       10 U         10061-01-5cis-1, 3-Dichloropropene       10 U         79-01-6Trichloroethene       10 U         124-48-1Dibromochloromethane       10 U         79-00-51, 1, 2-Trichloroethane       10 U         71-43-2Benzene       620 E         10061-02-6trans-1, 3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         79-34-51, 1, 2, 2-Tetrachloroethane       10 U         108-88-3Toluene       10 U         109-41-4Ethylbenzene       10 U         100-42-5			10	ן ט
78-87-51,2-Dichloropropane       10 U         10061-01-5cis-1,3-Dichloropropene       10 U         79-01-6Trichloroethene       10 U         124-48-1Dibromochloromethane       10 U         79-00-51,1,2-Trichloroethane       10 U         71-43-2Benzene       620 E         10061-02-6trans-1,3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         79-34-5Toluene       10 U         108-88-3Chlorobenzene       10 U         100-41-4Ethylbenzene       10 U         100-42-5Xylene       10 U			10	U
10061-01-5cis-1,3-Dichloropropene       10 U         79-01-6Trichloroethene       10 U         124-48-1Dibromochloromethane       10 U         79-00-51,1,2-Trichloroethane       10 U         71-43-2Benzene       620 E         10061-02-6trans-1,3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         79-34-5Toluene       10 U         108-88-3Toluene       10 U         108-90-7Chlorobenzene       10 U         100-41-4Ethylbenzene       10 U         100-42-5Styrene       10 U         1336-20-7	75-27-4Bro	modichloromethane	10	U
79-01-6Trichloroethene       10 U         124-48-1Dibromochloromethane       10 U         79-00-51,1,2-Trichloroethane       10 U         71-43-2Benzene       620 E         10061-02-6trans-1,3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         79-34-51,1,2,2-Tetrachloroethane       10 U         108-88-3Toluene       1 U         108-90-7Chlorobenzene       10 U         100-41-4Ethylbenzene       10 U         100-42-5Styrene       10 U         1336-20-7Xylene       10 U	78-87-51,2	-Dichloropropane	10	U
124-48-1			10	U
79-00-51,1,2-Trichloroethane       10 U         71-43-2Benzene       620 E         10061-02-6trans-1,3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         79-34-51,1,2,2-Tetrachloroethane       10 U         108-88-3Toluene       1 J         108-90-7Chlorobenzene       10 U         100-41-4Ethylbenzene       10 U         100-42-5Styrene       10 U         1336-20-7	79-01-6 <b>-</b> Tri	chloroethene	10	ប
71-43-2			.10	ן ט
10061-02-6trans-1,3-Dichloropropene       10 U         75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         79-34-51,1,2,2-Tetrachloroethane       10 U         108-88-3Toluene       1 J         108-90-7Chlorobenzene       10 U         100-41-4Ethylbenzene       10 U         100-42-5Xylene       10 U	79-00-51,1	,2-Trichloroethane	10	U
75-25-2Bromoform       10 U         108-10-14-Methyl-2-Pentanone       10 U         591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         79-34-51,1,2,2-Tetrachloroethane       10 U         108-88-3Toluene       1 J         108-90-7Chlorobenzene       10 U         100-41-4Ethylbenzene       10 U         100-42-5Styrene       10 U         1336-20-7			620	E
108-10-14-Methyl-2-Pentanone       10 U         591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         79-34-5Toluene       10 U         108-88-3Toluene       1 J         108-90-7Chlorobenzene       10 U         100-41-4Ethylbenzene       10 U         100-42-5Styrene       10 U         1336-20-7			10	ט
591-78-62-Hexanone       10 U         127-18-4Tetrachloroethene       10 U         79-34-51,1,2,2-Tetrachloroethane       10 U         108-88-3Toluene       1 J         108-90-7Chlorobenzene       10 U         100-41-4Ethylbenzene       10 U         100-42-5Styrene       10 U         1336-20-7Xylene       (Total)			10	U
127-18-4Tetrachloroethene       10 U         79-34-51,1,2,2-Tetrachloroethane       10 U         108-88-3Toluene       1 J         108-90-7Chlorobenzene       10 U         100-41-4Ethylbenzene       10 U         100-42-5Styrene       10 U         1336-20-7Xylene       (Total)	108-10-14-M	ethyl-2-Pentanone	10	ט
79-34-51,1,2,2-Tetrachloroethane       10 U         108-88-3Toluene       1 J         108-90-7Chlorobenzene       10 U         100-41-4Ethylbenzene       10 U         100-42-5Styrene       10 U         1336-20-7Xylene       10 U			10	บ
108-88-3Toluene       1 J         108-90-7Chlorobenzene       10 U         100-41-4Ethylbenzene       10 U         100-42-5Styrene       10 U         1336-20-7Xylene (Total)       10 U				
108-90-7Chlorobenzene       10 U         100-41-4Ethylbenzene       10 U         100-42-5Styrene       10 U         1336-20-7Xylene (Total)       10 U			1.0	
100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U 1336-20-7Xylene (Total) 10 U			1	J
100-42-5Styrene 10 U 1336-20-7Xylene (Total) 10 U			10	U
1336-20-7Xylene (Total) 10 U			10	U
1336-20-7Xylene (Total) 10 U 540-59-01,2-Dichloroethene (total) 2 J			10	U
540-59-01,2-Dichloroethene (total) 2 J	1336-20-7Xyl	ene (Total)	10	U
	540-59-01,2	-Dichloroethene (total)	2	J

FORM I VOA

OLM03.

### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW49-09

Soil Aliquot Volume: \_\_\_\_(uL

b Name: COMPUCHEM		Contract: OLM03		
ab Code: COMPU	Case No.: 34200	SAS No.:	SDG N	Jo.: 00007
atrix: (soil/water)	WATER	Lab Sa	imple ID:	945689
ample wt/vol:	5.0 (g/mL) mL	Lab Fi	le ID:	cn045689b57
evel: (low/med)	LOW .	Date R	Received:	06/16/99
Moisture: not dec.	<u> </u>	Date A	malyzed:	06/30/99
C Column: EQUITY624	ID: 0.53 (mm)	Diluti	on Factor	: 1.0

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Soil Extract Volume: (uL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1		· · · · · · · · · · · · · · · · · · ·		
3				
5  6.				
8				
10.				
11. 12. 13.				
14 15				
16. 17.				<u>-</u>
19.				
20. 21. 22.				
23.				
25. 26.				
27				
29. 30.				
		l	·	ll

### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM

EPA SAMPLE NO.

MW49-09DL

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945689

Lab File ID: C3R45689B57 Sample wt/vol: 5.0 (g/mL) mL

Contract: OLM03-REVS

Date Received: 06/16/99 Level: (low/med) LOW

Date Analyzed: 07/01/99 % Moisture: not dec. \_\_\_\_\_

Dilution Factor: 50.0 GC Column: EQUITY624 ID: 0.53 (mm)

Soil Aliquot Volume: \_\_\_\_(uL Soil Extract Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L CAS NO. COMPOUND

### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

MW49-09DL Contract: OLM03-REVS

Name: COMPUCHEM

Case No.: 34200 SAS No.:

SDG No.: 00007

Matrix: (soil/water) WATER

Lab Sample ID: 945689

Sample wt/vol:

Lab Code: COMPU

5.0 (g/mL) mL

Lab File ID: c3r45689b57

Level: (low/med) LOW

Date Received: 06/16/99

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 07/01/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 50.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_(uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1.				====
2				
3.4.			<u> </u>	
5				
6				
9				
10				
12.				
13	<del></del>			<del></del>
15.				
16.				
10.				-
19.				
21.				
22.				
23.			· · · · · · · · · · · · · · · · · · ·	
25.				
26.				
27.				
29				
30		\ <u></u>		

FORM I VOA-TIC

OLM03.0

## VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

MW49-09DLMS

0

Contract: OLM03-REVS Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945670

CAS NO.

Lab File ID: 5.0 (g/mL) mL Sample wt/vol: CN045670B57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. Date Analyzed: 07/02/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Aliquot Volume: \_\_\_\_(uL Soil Extract Volume: \_\_\_\_(uL)

> CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) ug/L

74-87-3-----Chloromethane 500 U 74-83-9----Bromomethane 500 U 75-01-4-----Vinyl Chloride\_\_\_\_ 500 U 75-00-3-----Chloroethane 220 J 75-09-2-----Methylene Chloride 160 J 67|JB 67-64-1-----Acetone 75-15-0-----Carbon Disulfide 500 U 75-35-4-----1,1-Dichloroethene\_\_\_\_ 1800 75-34-3----1,1-Dichloroethane 500 | <del>U</del> 67-66-3-----Chloroform 500 U 500 | U 107-06-2-----1,2-Dichloroethane\_\_\_\_ 78-93-3----2-Butanone 500 U 71-55-6-----1,1,1-Trichloroethane 500 U 56-23-5-----Carbon Tetrachloride 500 U 75-27-4-----Bromodichloromethane 500 U 78-87-5-----1,2-Dichloropropane 500 U 10061-01-5----cis-1,3-Dichloropropene 500 U 79-01-6----Trichloroethene 2400 124-48-1-----Dibromochloromethane 500 T 79-00-5-----1,1,2-Trichloroethane 500 U 71-43-2-----Benzene 50.00 10061-02-6----trans-1,3-Dichloropropene 500 \<del>U</del> 75-25-2-----Bromoform 500 U 108-10-1----4-Methyl-2-Pentanone 500 U 591-78-6----2-Hexanone 500 U 127-18-4----Tetrachloroethene 500 U 79-34-5----1,1,2,2-Tetrachloroethane 500 U 108-88-3-----Toluene 2400 108-90-7-----Chlorobenzene 2400 500 T 100-41-4----Ethylbenzene 500 U

FORM I VOA

540-59-0-----1,2-Dichloroethene (total)

500 U

500 U

Soil Extract Volume: (uL)

MW49-09DLMSD

Soil Aliquot Volume: \_\_\_ (uL

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945671

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045671B57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. Date Analyzed: 07/02/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 50.0

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

74-87-3-----Chloromethane 500 U 500 U 74-83-9-----Bromomethane 75-01-4-----Vinyl Chloride 500 U 75-00-3-----Chloroethane 220 J 75-09-2-----Methylene Chloride 160 J 67-64-1------Acetone 130 JB 75-15-0------Carbon Disulfide 500 U 75-35-4-----1,1-Dichloroethene\_ 1900 75-34-3-----1,1-Dichloroethane 500 T 67-66-3-----Chloroform 500 U 107-06-2----1,2-Dichloroethane 500 U 78-93-3----2-Butanone 500 U 71-55-6----1,1,1-Trichloroethane 500 U 56-23-5-----Carbon Tetrachloride 500 U 75-27-4-----Bromodichloromethane 500 U 78-87-5-----1,2-Dichloropropane 500 U 10061-01-5----cis-1,3-Dichloropropene 500 U 79-01-6-----Trichloroethene 2400 500 T 124-48-1-----Dibromochloromethane 79-00-5-----1,1,2-Trichloroethane 500 U 71-43-2-----Benzene 5000 10061-02-6----trans-1,3-Dichloropropene 500 | <del>U</del> 500 U 75-25-2-----Bromoform\_ 108-10-1-----4-Methyl-2-Pentanone 500 U 591-78-6----2-Hexanone 500 U 127-18-4-----Tetrachloroethene 500 U 79-34-5----1,1,2,2-Tetrachloroethane 500 U 108-88-3-----Toluene 2400 108-90-7-----Chlorobenzene 2400 100-41-4-----Ethylbenzene 500 T 500 U 500 U 500 U

MW49-09

Contract: OLM03-REVS Lab Name: COMPUCHEM

Case No.: 34200 SAS No.: SDG No.: 00007 Lab Code: COMPU

Matrix: (soil/water) WATER Lab Sample ID: 945689

1000 (g/mL) ML Lab File ID: GH045689A66 Sample wt/vol:

Level: (low/med) LOW Date Received: 06/16/99

decanted: (Y/N) % Moisture: Date Extracted: 06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 71 108-95-2----Phenol 111-44-4-----bis(2-Chloroethyl)ether 10 U 95-57-8----2-Chlorophenol 10 U 541-73-1----1,3-Dichlorobenzene 10 U 106-46-7-----1,4-Dichlorobenzene 10 U 95-50-1----1,2-Dichlorobenzene 10 U 95-48-7----2-Methylphenol 10 U 108-60-1----2,2'-oxybis(1-Chloropropane) 9 | J 10 U 106-44-5-----4-Methylphenol 621-64-7----N-Nitroso-di-n-propylamine 10 U 67-72-1-----Hexachloroethane 10 U 10 U 98-95-3-----Nitrobenzene 78-59-1-----Isophorone 3 J 88-75-5----2-Nitrophenol 10 U 105-67-9----2,4-Dimethylphenol\_ 10 U 111-91-1-----bis(2-Chloroethoxy) methane 10 U 120-83-2----2,4-Dichlorophenol 120-82-1----1,2,4-Trichlorobenzene 10 U 10 U 91-20-3-----Naphthalene 10 U 106-47-8-----4-Chloroaniline 10 U 87-68-3------Hexachlorobutadiene 10 U 59-50-7-----4-Chloro-3-methylphenol 10 U 91-57-6----2-Methylnaphthalene 10 U 77-47-4-----Hexachlorocyclopentadiene 10 U 88-06-2----2,4,6-Trichlorophenol 10 U 95-95-4-----2,4,5-Trichlorophenol 25 U 91-58-7----2-Chloronaphthalene 10 U 88-74-4----2-Nitroaniline 25 U 131-11-3-----Dimethylphthalate 10 U 208-96-8-----Acenaphthylene 10 U 606-20-2----2,6-Dinitrotoluene 10 U 99-09-2----3-Nitroaniline 25 U 83-32-9------Acenaphthene 10 U

CONCENTRATION UNITS:

MW49-09
PUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945689

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045689A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: decanted: (Y/N) Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

b Name: COMPUCHEM

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

25 U 51-28-5-----2,4-Dinitrophenol 100-02-7----4-Nitrophenol 25 l U 10 U 132-64-9-----Dibenzofuran 121-14-2----2,4-Dinitrotoluene 10 U 84-66-2-----Diethylphthalate 10 U 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 100-01-6-----4-Nitroaniline 25 U 25 | U 534-52-1-----4,6-Dinitro-2-methylphenol 86-30-6-----N-nitrosodiphenylamine (1) 10 U 101-55-3-----4-Bromophenyl-phenylether\_\_\_ 10 U 118-74-1-----Hexachlorobenzene 10 | U 87-86-5-----Pentachlorophenol 25 U 85-01-8-----Phenanthrene 10 U 10 U 120-12-7-----Anthracene 86-74-8-----Carbazole 10 U 10 U 84-74-2-----Di-n-butylphthalate 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1----3,37-Dichlorobenzidine 10 U 56-55-3-----Benzo(a) anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 10 U 117-84-0-----Di-n-octylphthalate 10 U 205-99-2-----Benzo (b) fluoranthene 10 U 207-08-9-----Benzo(k) fluoranthene 10 U 50-32-8-----Benzo (a) pyrene 10 U 193-39-5-----Indeno (1, 2, 3-cd) pyrene 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 U 10 U 191-24-2----Benzo(g,h,i)perylene (1) - Cannot be separated from Diphenylamine

EPA SAMPLE NO.

### 1 F SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW49-09

Lab Name: COMPUCHEM

Contract · OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00007

Matrix: (soil/water) WATER

Lab Sample ID: 945689

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: GH045689A66

Level: (low/med) LOW

Date Received: 06/16/99

% Moisture: decanted: (Y/N)

Date Extracted: 06/22/99

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 07/15/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 29

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	0
	COMPOND NAME	=======		<u> </u>
1. 106-68-3	3-OCTANONE	5,21	8	NJ
2.	TRICHLOROPROPENE (BC)	5.31	4	
3.	UNKNOWN	5.51		J
4.	UNKNOWN	6.00		
5.	UNKNOWN	6.31	2	J
6. 873-94-9			_	1 1
7. 116-02-9		6.68		
8. 112-36-7	ETHANE, 1,1'-OXYBIS[2-ETHOXY	6.86		NJ
9.	UNKNOWN	7.12		i .
10. 78-40-0	TRIETHYL PHOSPHATE	7.40		ŊJ
11.	UNKNOWN CARBOXYLIC ACID	7.58	•	J
12.	UNKNOWN	7.66	2	J
13.	UNKNOWN	7.96	$\bar{2}$	Ĵ
14.	UNKNOWN	8.43		J
15. 112-26-5	ETHANE, 1,2-BIS(2-CHLOROETHO	9.05		NJ
16. 74-11-3	BENZOIC ACID, 4-CHLORO-	9.71	11	NJ
17.	UNKNOWN	9.82	7	J
18. 103-84-4	ACETAMIDE, N-PHENYL-	10.10	6	NJ
19. 480-63-7	BENZOIC ACID, 2,4,6-TRIMETHY	10.47	2	NJ
20.	UNKNOWN	10.64	3	J
21. 480-63-7	BENZOIC ACID, 2,4,6-TRIMETHY	10.98		NJ
22.	UNKNOWN	11.29		J
23.	UNKNOWN	11.41	94	J
24.	UNKNOWN	11.69		J
25.	UNKNOWN	12.59		J
26. 309-43-3	SECOBARBITAL SODIUM	13.80		NJ
27.	UNKNOWN	14.43		J
28.	UNKNOWN	17.55		J
29.	UNKNOWN	18.09	31	J
30				
l				

FORM I SV-TIC

OLM03.0

MW49-09MS

Contract: OLM03-REVS La ame: COMPUCHEM

Case No.: 34200 SAS No.: SDG No.: 00007 Lab Code: COMPU

Lab Sample ID: 945674 Matrix: (soil/water) WATER

1000 (q/mL) ML Lab File ID: G2J45674B66 Sample wt/vol:

Date Received: 06/16/99 Level: (low/med) LOW

decanted: (Y/N) Date Extracted: 06/22/99 % Moisture:

Concentrated Extract Volume: Date Analyzed: 07/22/99 1000 (uL)

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 140 E 108-95-2----Phenol 111-44-4-----bis(2-Chloroethyl)ether 10 U 95-57-8----2-Chlorophenol 72 10 | 0 541-73-1----1,3-Dichlorobenzene 106-46-7----1,4-Dichlorobenzene 45 10 U 95-50-1-----1,2-Dichlorobenzene\_ 95-48-7----2-Methylphenol 10 U 108-60-1----2,2'-oxybis(1-Chloropropane) 11 10 U 106-44-5-----4-Methylphenol 621-64-7----N-Nitroso-di-n-propylamine 51 10|ប៊ 67-72-1-----Hexachloroethane 10 U 98-95-3-----Nitrobenzene J 78-59-1-----Isophorone 4 10 U 88-75-5----2-Nitrophenol 10 U 105-67-9-----2,4-Dimethylphenol 10 U 111-91-1----bis(2-Chloroethoxy) methane 120-83-2----2,4-Dichlorophenol 10 U 120-82-1----1,2,4-Trichlorobenzene 45 10 U 91-20-3-----Naphthalene 106-47-8-----4-Chloroaniline 10 U 87-68-3-----Hexachlorobutadiene 10 U 59-50-7----4-Chloro-3-methylphenol 85 E 91-57-6----2-Methylnaphthalene 10 U 77-47-4----Hexachlorocyclopentadiene 10 U 88-06-2----2,4,6-Trichlorophenol 10 U 95-95-4----2,4,5-Trichlorophenol 25 U 91-58-7----2-Chloronaphthalene 10 U 88-74-4----2-Nitroaniline 25 U 131-11-3-----Dimethylphthalate 10 U 208-96-8-----Acenaphthylene 10 U 606-20-2-----2;6-Dinitrotoluene 10 U 99-09-2----3-Nitroaniline 25 | U 83-32-9-----Acenaphthene

### 1C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

MW49-09MS

0

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945674

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G2J45674B66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: decanted: (Y/N) Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

25 U 51-28-5----2,4-Dinitrophenol 94 | E 100-02-7----4-Nitrophenol 132-64-9-----Dibenzofuran 10 U 121-14-2----2,4-Dinitrotoluene 41 10 U 84-66-2-----Diethylphthalate 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7----Fluorene 10 U 100-01-6-----4-Nitroaniline 25 U 534-52-1-----4,6-Dinitro-2-methylphenol 25 U 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 U 87-86-5-----Pentachlorophenol 130 E 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene\_ 10 U 86-74-8-----Carbazole 10 U 84-74-2----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 51 85-68-7-----Butylbenzylphthalate 10 U 91-94-1----3,37-Dichlorobenzidine 10 U 56-55-3-----Benzo(a) anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 1 | J 10 U 117-84-0-----Di-n-octylphthalate 205-99-2-----Benzo(b) fluoranthene 10 U 207-08-9-----Benzo(k)fluoranthene 10 U 50-32-8-----Benzo(a)pyrene 10 U 193-39-5-----Indeno (1, 2, 3-cd) pyrene 10 l U 53-70-3-----Dibenzo(a,h)anthracene 10 U 191-24-2-----Benzo(q,h,i)perylene 10 U (i) - Cannot be separated from Diphenylamine

FORM I SV-2

OLMO3.0

MW49-09MSD

Name: COMPUCHEM

MPUCHEM Contra

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945675

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045675A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

108-95-2Phenol 111-44-4bis (2-Chloroethyl) ether 95-57-82-Chlorophenol 541-73-11,3-Dichlorobenzene 106-46-71,4-Dichlorobenzene 95-50-11,2-Dichlorobenzene 95-48-72-Methylphenol 108-60-12,2'-oxybis (1-Chloropropane) 106-44-5	150 10 56 10 32 10 10 8 10 36 10 10 10 10 10 10 10 10 10 10 10 10 10	
77-47-4Hexachlorocyclopentadiene 88-06-22,4,6-Trichlorophenol 95-95-42,4,5-Trichlorophenol 91-58-72-Chloronaphthalene	10 10 25 10	บ บ บ

MW49-09MSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945675

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045675A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: decanted: (Y/N) Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5	2,4-Dinitroph	enol	25	U
100-02-7	4-Nitrophenol		63	
132-64-9	Dibenzofuran			IJ
121-14-2	2,4-Dinitroto	luene	46	
84-66-2	Diethylphthal	ate		Ū
7005-72-3	4-Chloropheny	1-phenylether		
86-73-7	Fluorene			
100-01-6	4-Nitroanilin	<u> </u>		
	4,6-Dinitro-2		25	
	N-nitrosodiph			1
101-55-3	4-Bromophenyl	-phenylether	10	
118-74-1	Hexachloroben	zene		
	Pentachloroph			
	Phenanthrene			
	Anthracene			
86-74-8	·Carbazole	<del></del>	10	ı
	Di-n-butylpht	halate	10	1
206-44-0	Fluoranthene		10	-
129-00-0			45	
85-68-7	Butylbenzylph	thalate		<del>1</del>
91-94-1	3,3'-Dichloro	benzidine	10	. –
	Benzo(a) anthr		10	
	Chrysene		10	
117-81-7	bis(2-Ethylhe	xvl)phthalate	10	Ŧ.
117-84-0	Di-n-octylpht	halate	10	Ū
205-99-2	·Benzo(b)fluor	anthene	10	1
	Benzo(k) fluor		10	
	Benzo(a)pyren			1 -
193-39-5	Indeno(1,2,3-	cd) pyrene	. 10	
53-70-3	Dibenzo(a,h)a	nthracene	10	
	Benzo(q,h,i)p		10	
	201120 (3/11/1/12		10	~
- Cannot be	e separated from D	inhenvlamine		·

0.0083 JP

MW49-09 Contract: OLM03-REVS Name: COMPUCHEM Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007 Matrix: (soil/water) WATER Lab Sample ID: 945689 Sample wt/vol: 1050 (g/mL) ML Lab File ID: % Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_ Date Received: 06/16/99 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/18/99 Concentrated Extract Volume: 10000(uL) Date Analyzed: 06/25/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0.048 U 319-84-6-----alpha-BHC 319-85-7-----beta-BHC 0.048 U 319-86-8-----delta-BHC 0.0019 JP 58-89-9-----gamma-BHC (Lindane) 0.048 U

## PESTICIDE ORGANICS ANALYSIS DATA SHEET

1020 (g/mL) ML

Sample wt/vol:

EPA SAMPLE NO.

Q

Lab Name: COMPUCHEM	Contract: OLM03-REVS	MW49-09MS
Lab Code: COMPU Case No.: 34200		No.: 00007
Matrix: (soil/water) WATER	Lab Sample ID:	945677

Lab File ID:

Date Received: 06/16/99 % Moisture: decanted: (Y/N)

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/18/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 06/25/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) N pH: \_\_\_

> CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND

319-84-6alpha-BHC	0.049	ט
319-85-7beta-BHC	0.015	
319-86-8delta-BHC	0.049	ľŪ
58-89-9gamma-BHC (Lindane)	_ 0.23	
76-44-8Heptachlor	0.21	l ——
309-00-2Aldrin	0.21	<del></del> -
1024-57-3Heptachlor epoxide	-\ 0.049	
959-98-8Endosulfan I	—  0.049	1
60-57-1Dieldrin	—  0.46	
72-55-94,4'-DDE	—  0.098	
72-20-8Endrin	0.52	1
33213-65-9Endosulfan II	0.098	
72-54-84,4'-DDD	—  0.098	
1031-07-8Endosulfan sulfate	—  0.098 0.098	
50-29-34,4'-DDT	— 0.45 0.45	١
72-43-5Methoxychlor	— 0.13 0.49	TT
53494-70-5Endrin ketone	0.0069	1
7421-93-4Endrin aldehyde	0.0043	i
5103-71-9alpha-Chlordane	- 0.049	1
5103-74-2gamma-Chlordane	— 0.049 0.049	
8001-35-2Toxaphene	4.9	
12674-11-2Aroclor-1016	—  0.98	
11104-28-2Aroclor-1221	$- $ $\frac{0.50}{2.0}$	
11141-16-5Aroclor-1232	— 0.98	
53469-21-9Aroclor-1242	0.98	
12672-29-6Aroclor-1242	-  0.98	
11097-69-1Aroclor-1254	0.98	
11097-69-1Aroclor-1254	— 0.98 0.98	U
11030-07-2WIOCIOI-1590	—  0.98	١
		l

72-54-8-----4,4'-DDD

50-29-3-----4,4'-DDT

8001-35-2----Toxaphene

72-43-5-----Methoxychlor

53494-70-5-----Endrin ketone 7421-93-4-----Endrin aldehyde

12674-11-2-----Aroclor-1016

11104-28-2----Aroclor-1221

11141-16-5-----Aroclor-1232\_ 53469-21-9-----Aroclor-1242

12672-29-6-----Aroclor-1248\_ 11097-69-1----Aroclor-1254\_

11096-82-5----Aroclor-1260

5103-71-9-----alpha-Chlordane

1031-07-8-----Endosulfan sulfate

5103-74-2-----gamma-Chlordane

0.095 U

0.095 U

0.014 JP

0.095 U

0.048 U

0.048 U

4.8 U

1.9 U 0.95 U

0.95 U

0.95 U 0.95 U

0.95 U

0.95 U

0.64 | 0.48 | <del>U</del>

MW49-09MSD Name: COMPUCHEM Contract: OLM03-REVS Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007 Matrix: (soil/water) WATER Lab Sample ID: 945676 Sample wt/vol: 1050 (q/mL) ML Lab File ID: Date Received: 06/16/99 % Moisture: decanted: (Y/N)\_\_\_\_ Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/18/99 Concentrated Extract Volume: 10000(uL) Date Analyzed: 06/25/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 319-84-6-----alpha-BHC 0.048 U 319-85-7-----beta-BHC 0.013 JP 319-86-8------delta-BH $\overline{C}$ 0.048 U 58-89-9-----gamma-BHC (Lindane) 0.28 76-44-8-----Heptachlor 0.29 309-00-2----Aldrin 0.27 1024-57-3-----Heptachlor epoxide 0.048 T 959-98-8-----Endosulfan I 0.048 U 60-57-1-----Dieldrin 0.61 0.095 T 72-55-9-----4,4'-DDE 72-20-8-----Endrin 0.68 33213-65-9----Endosulfan II 0.095 T

## U.S. EPA - CLP

# 1 INORGANIC ANALYSES DATA SHEET

ab Name: COMI	PUCHEM		Contract: I	LM(	04.0	MW49-09
ab Code: COME	PU_ Ca	se No.: 342	200_ SAS No.	: _		SDG No.: 00007
atrix (soil/w	vater): WATE	R		Lá	ab Samp	ole ID: 945689
evel (low/med	l): LOW_	_		Da	ate Rec	eived: 06/16/99
Solids:	0.	0				
Cc	ncentration	Units (ug,	L or mg/kg dry	y v	weight)	: UG/L
	CAS No.	Analyte	Concentration	C	Q	М
	7429-90-5	Aluminum	387	-		-   <del>     </del>
	7440-36-0	Antimony	42.4			- P
	7440-38-2	Arsenic	25.7		<del></del>	-  P-
	7440-39-3	Barium	117			P
	7440-41-7	Beryllium	0.53			P
	7440-43-9	Cadmium	0.50	,		<sub>P</sub> _
	7440-70-2	Calcium	81900			P_
	7440-47-3	Chromium	1.9	$\overline{B}$		P
	7440-48-4	Cobalt	1.3	В		P
	7440-50-8	Copper	2.0	В		P
	7439-89-6	Iron	32600			P
	7439-92-1	Lead	1.0	Ū		P_
	7439-95-4	Magnesium	11900			P
	7439-96-5	Manganese	1560			P_
	7439-97-6	Mercury	0.02			CV
	7440-02-0	Nickel	5.5			P_
	7440-09-7	Potassium	4030	1	E	P_
	7782-49-2	Selenium_	3.5			-   P_
		Silver	0.30	U		P_
	7440-23-5	Sodium	19900			P
	7440-28-0	Thallium_	8.0		·	P_
	7440-62-2		3.6			P_
	7440-66-6	Zinc Cyanide	10.3	B		P CA
olor Before:	COLORLESS	Clari	ty Before: CLE	AR_	_	Texture:
lor After:	COLORLESS	Clari	ty After: CLE	AR_	_	Artifacts:
omments:						
	(1.07.1.0		<del></del>			
Duplicate	(MW49-09D)					

FORM I - IN

SUBMITTED TO: Ms. Judith Kinch Montgomery Watson 2100 Corporate Drive Addison, IL 60101

#### LABORATORY CHRONICLE - TOTAL ORGANIC CARBON IN WATER ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE ANALYSIS COMPLETED
1. 2.	ACSGWMW19- ACSGWMW45-		06/11/99 06/11/99	06/30/99 06/30/99

#### ORTHOPHOSPHATE ANALYSIS

#### SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	ACSGWMW19-09		< 0.02	0.02
2.	ACSGWMW45-09		0.81	0.02

Reviewed by/ID#: Joe Besile 12381 Date: 7/21/59

#### AMMONIA ANALYSIS

#### SUMMARY REPORT

ITEM	SAMPLE	COMPUCHEM	RESULT	REPORTING LIMIT
NO.	IDENTIFIER	NUMBER	(mg/L)	(mg/L)
1.	ACSGWMW19-0	09 944711	41.5	2.0
2.	ACSGWMW45-	09 944740	1.0	0.2

Reviewed by/ID#: 2003 300 | 238/ Date: 7/21/79

#### NITRATE/NITRITE ANALYSIS

#### **SUMMARY REPORT**

ITEM	SAMPLE	COMPUCHEM	RESULT	REPORTING LIMIT (mg/L)
NO.	IDENTIFIER	NUMBER	(mg/L)	
1.	ACSGWMW19-09		0.16	0.05
2.	ACSGWMW45-09		0.14	0.05

Reviewed by/ID#: <u>Joe Besile</u> 1238/ Date: 7/21/79

#### SULFATE ANALYSIS

#### **SUMMARY REPORT**

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	ACSGWMW19-09		< 5.0	5.0
2.	ACSGWMW45-09	944740	< 5.0	5.0

Reviewed by/ID#: 900 Besile 1238/ Date: 2/21/79

#### TOTAL KJELDAHL NITROGEN ANALYSIS

#### SUMMARY REPORT

ITEM	SAMPLE	COMPUCHEM	RESULT	REPORTING LIMIT (mg/L)
NO.	IDENTIFIER	NUMBER	(mg/L)	
1.	ACSGWMW19-09		44.9	2.0
2.	ACSGWMW45-09		1.6	0.2

Reviewed by/ID#: Joe Besile 1238/ Date: 7/21/79

#### TOTAL ORGANIC CARBON IN WATER ANALYSIS

#### **SUMMARY REPORT**

ITEM	SAMPLE	COMPUCHEM	RESULT	REPORTING LIMIT (mg/L)
NO.	IDENTIFIER	NUMBER	(mg/L)	
1.	ACSGWMW19-09		32.4	1.0
2.	ACSGWMW45-09		7.1	1.0

Reviewed by/ID#: 200 Bascle 1238/ Date: 2/21/59

#### NITRATE/NITRITE ANALYSIS

#### **SUMMARY REPORT**

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	MW18-09	944468	10.4	0.50
2.	MW38-09	944496	0.18	0.05
3.	MW39-09	944515	0.17	0.05
4.	MW40-09	944518	0.59	0.05
5.	ACSGWMW41-09	944739	0.22	0.05

Reviewed by/ID#: Joe Busile 1238/ Date: 7/21/79

#### AMMONIA ANALYSIS

#### **SUMMARY REPORT**

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	MW18-09	944468	< 0.2	0.2
2.	MW38-09	944496	< 0.2	0.2
3.	MW39-09	944515	2.9	0.2
4.	MW40-09	944518	< 0.2	0.2
5.	ACSGWMW41-09	944739	< 0.2	0.2

Reviewed by/ID#: Joe Basels / 238/ Date: 7/21/79

## SULTATE ANALYSIS

## **SUMMARY REPORT**

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	MW18-09	944468	46.7	10.0
2.	MW38-09	944496	25.6	5.0
3.	MW39-09	944515	26.2	5.0
4.	MW40-09	944518	31.9	5.0
<b>5.</b> .	ACSGWMW41-09	944739	36.6	5.0

#### TOTAL KJELDAHL NITROGEN ANALYSIS

#### **SUMMARY REPORT**

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1	MW18-09	944468	0.4	0.2
2.	MW38-09	944496	0.7	0.2
3.	MW39-09	944515	3.5	0.2
4.	MW40-09	944518	0.3	0.2
5.	ACSGWMW41-09	944739	< 0.2	0.2

Reviewed by/ID#: Joe Baselo 1238/ Date: 7/2/199

## TOTAL ORGANIC CARBON IN WATER ANALYSIS

#### SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L).	REPORTING LIMIT (mg/L)
•	MM10 00.	044468	2.2	1.0
1.	MW18-09	944468	3.2	1.0
2.	MW38-09	944496	13.0	1.0
3.	MW39-09	944515	7.1	1.0
4.	MW40-09	944518	6.0	1.0
5.	ACSGWMW41-09	944/39	2.1	1.0

Reviewed by/ID#: 200 Beach 1238/ Date: 7/21/99

SUBMITTED TO:
Ms. Judith Kinch
Montgomery Watson
2100 Corporate Drive
Addison, IL 60101

## LABORATORY CHRONICLE - ORTHOPHOSPHATE ANALYSIS

			DATE	DATE
ITEM	SAMPLE	COMPUCHEM	SAMPLE	ANALYSIS
NO.	IDENTIFIER	NUMBER	RECEIVED	COMPLETED
	•			
1.	MW48-09R	945984	06/17/99	06/18/99

SUBMITTED TO: Ms. Judith Kinch Montgomery Watson 2100 Corporate Drive Addison, IL '60101

#### LABORATORY CHRONICLE - NITRATE/NITRITE ANALYSIS

			DATE	DATE
ITEM	SAMPLE	COMPUCHEM	SAMPLE	ANALYSIS
NO.	IDENTIFIER	NUMBER	RECEIVED	COMPLETED
-				
1.	MW48-09R	945984	06/17/99	06/28/99

SUBMITTED TO:
Ms. Judith Kinch
Montgomery Watson
2100 Corporate Drive
Addison, IL 60101

## LABORATORY CHRONICLE - SULFATE ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE ANALYSIS COMPLETED
1.	MW48-09R	945984	06/17/99	06/25/99
2.	MW48-99	946003	06/17/99	06/25/99

SUBMITTED TO:
Ms. Judith Kinch
Montgomery Watson
2100 Corporate Drive
Addison, IL 60101

#### LABORATORY CHRONICLE - TOTAL KJELDAHL NITROGEN ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE EXTRACTION COMPLETED	DATE ANALYSIS COMPLETED
1.	MW48-09R	945984	06/17/99	07/08/99	07/08/99
	MW48-99	946003	06/17/99	07/08/99	07/08/99

SUBMITTED TO:
Ms. Judith Kinch
Montgomery Watson
2100 Corporate Drive
Addison, IL 60101

#### LABORATORY CHRONICLE - AMMONIA ANALYSIS

			DATE	DATE
ITEM	SAMPLE	COMPUCHEM	SAMPLE	ANALYSIS
NO.	IDENTIFIER	NUMBER	RECEIVED	COMPLETED
1.	MW48-09R	945984	06/17/99	06/22/99

SUBMITTED TO:
Ms. Judith Kinch
Montgomery Watson
2100 Corporate Drive
Addison, IL 60101

#### LABORATORY CHRONICLE - TOTAL ORGANIC CARBON IN WATER ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE ANALYSIS COMPLETED
1.	MW48-09R	945984	06/17/99	06/30/99
2.	MW48-99	946003	06/17/99	06/30/99

#### ORTHOPHOSPHATE ANALYSIS

## SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	MW48-09R	945984	0.55	0.02
2.	MW48-99	946003	0.50	0.02

Reviewed by/ID#: Joe Busile 1238/ Date: 7/20/99

#### NITRATE/NITRITE ANALYSIS

#### SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (mg/L)	REPORTING LIMIT (mg/L)
1.	MW48-09R	945984	0.14	0.05
2.	MW48-99	946003	0.12	0.05

## SULFATE ANALYSIS

## SUMMARY REPORT

ITEM	SAMPLE	COMPUCHEM	RESULT	REPORTING LIMIT (mg/L)
NO.	IDENTIFIER	NUMBER	(mg/L)	
1.	MW48-09R	945984	8.0	5.0
2.	MW48-99	946003	9.1	5.0

Reviewed by/ID#: Joe Basele 1238/ Date: 7/20/99

## APPENDIX D

VALIDATION NARRATIVE AND LABORATORY REPORTS FROM LOWER AQUIFER

#### VALIDATION NARRATIVE

Project:

ACS - quarterly GW sampling

Analysis:

**VOCs** 

Number:

1252042

Matrix:

Water

Validated by:

**TJW** 

8/18/99 Date:

00002 SDG:

This narrative summarizes the results of the data validation of twenty groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by CompuChem for volatile organic compounds (VOCs) following Contract Laboratory Program (CLP) procedures. Data validation was performed using the USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994). Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please refer to Table 1-2 for a summary of qualified data.

**Holding Time:** All samples were analyzed within the acceptable holding times.

Instrument Performance: All instrument performance criteria were met.

Calibration: Acetone had a high percent recovery (%R) and percent relative standard deviation (%RSD) in the initial calibration. Acetone is a typical "poor responder" and no data are qualified.

In the continuing calibration (CCAL) on 6/22/99 (20: 57) 2-Butanone, 4-methyl-2-pentanone, and 2-Hexanone had percent differences (%D) greater than acceptable quality control (QC) limits. These three compounds are typical poor responders. The only sample/compound with positive results was FB01-09 / 2-Butanone.

In the CCAL on 6/23/99 (19:24), 2-Butanone, 2-Hexanaone, and 4-methyl-2-pentanone had %D outside OC limits. These three compounds are also typical poor responders. The only positive reslut is for 2-Hexanone in MW48-09DL.

Due to the nature of the compounds ("typical poor responders"), no data are qualified based on the calibrations.

Blanks: Acetone concentrations in 14 samples are estimated due to detection in the method blank. Additionally, 2-Butanone and 2-Hexanone were detected in method blanks The associated positive results are flagged "J," and are listed in Table 1-2.

Both trip blanks had positive results for methylene chloride (4 ug/L) and Acetone (3 ug/L). Positive results for methylene chloride below 20 ug/L are estimated and flagged "J."

The field blank (FB01-09) had positive results for methylene chloride, acetone. chloroform, and 2butanone. Acetone and 2-butanone were detected in the method blanks and no additional qualifications for these compounds in the field blank are necessary. Methylene chloride is a common laboratory contaminant and positive results have already been estimated and flagged "J" by the laboratory. Chloroform was present in the field blank at 1 ug/L. No positive results for chloroform are reported, and no data are qualified.

Surrogates: All surrogate compounds met the required QC acceptance criteria.

Matrix Spikes: All matrix spike and matrix spike duplicates met the required OC acceptance criteria.

Field duplicates: Methylene chloride and acetone were the only detected compounds in the field duplicates (MW44-09 and MW44-99). The relative percent differences (RPDs) were above the acceptable limits. However, due to detected concentrations in the blanks (see discussion above) and the nature of the compounds (common laboratory contaminants), no data are qualified due to field duplicate RPDs.

Internal Standards: Internal standard areas and retention times were within acceptable QC limits.

Compound Identification: VOC target compound qualitative identification criteria, including relative retention times and mass spectra criteria were acceptable.

System Performance: VOC system performance resolution and peak shape was acceptable.

Sample Results: The overall data quality of the laboratory was acceptable. It appears there may be some common background laboratory contamination (i.e. methylene chloride and acetone). However, the background contamination is not expected to influence data usability.

Table 1-2
Summary of Qualified VOC Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
MW48-09DL	2-hexanone		J	CCAL % D was outside QC limits, and compound was detected in the method
				blank.
FB01-09	Methylene chloride		J	Detection of compound in trip blank.
	2-butanone		J	CCAL %D was outside QC limits, and compound detected in method blank.
-	acetone		J	Compound detected in the method blank.
TB01-09	Acetone		J	Compound detected in the method blank.
MW18-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW38-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW39-09	Acetone		J	Compound detected in the method blank.
•	methylene chloride		J	Compound detected in the trip blank.
MW28-09	Acetone		J	Compound detected in the method blank.
	methylene chloride	•	J	Compound detected in the trip blank.
MW31-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW32-09	Acetone		J	Compound detected in the method blank.
	methylene chloride	. '	J	Compound detected in the trip blank.
MW54R-09	Acetone	•	J ·	Compound detected in the method blank.
	methylene chloride	•	J	Compound detected in the trip blank.
MW55-09	Acetone		J	Compound detected in the method blank.
	methylene chloride		J	Compound detected in the trip blank.
MW44-09	Acetone		J	Compound detected in the method blank, and duplicate RPDs above QC limits
	methylene chloride		J	Compound detected in the trip blank, and duplicate RPDs above QC limits.
MW4D-09	Acetone		J	Compound detected in the method blank.
•	methylene chloride		J	Compound detected in the trip blank.
MW-42-09	Acetone		J	Compound detected in the method blank.
\$** · · ·	methylene chloride		J	Compound detected in the trip blank.

Table 1-2
Summary of Qualified VOC Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration ( (µg/L)	Qualifiers	Reason
MW41-09	Methylene chloride		J	Compound detected in the trip blank.
MW44-99	Acetone	•	J	Compound detected in the method blank, and duplicate RPDs above QC limits
	methylene chloride		J	Compound detected in the trip blank, and duplicate RPDs above QC limits.
MW08-09	Methylene chloride		J	Compound detected in the trip blank.
MW48-09	Methylene chloride		J	Compound detected in the trip blank.

J Data are considered estimated

#### VALIDATION NARRATIVE

Project: ACS - quarterly GW sampling Analysis: **SVOCs** 

Water

Matrix:

Number: 1252042

8/18/99 Date:

00002

Validated by: **TJW** SDG:

This narrative summarizes the results of the data validation of sixteen groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by CompuChem for semi-volatile organic compounds (SVOCs) following Contract Laboratory Program (CLP) procedures. Data validation was performed using the USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994). Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please refer to Table 1-1 for a summary of qualified data.

Holding Time: Eleven of the sixteen samples were originally extracted within holding times. Due to poor surrogate recoveries and internal standard responses in the method blank extracted with these samples, these eleven samples had to be re-extracted. The re-extraction was performed outside of holding time requirements. The re-extracted data is technically more accurate and will be considered the proper results with qualifications for holding times. The remaining five samples were extracted and analyzed within acceptable holding times.

Positive results for the re-extracted data is estimated and flagged "J." Non-detected results for the reextracted data is estimated "UJ."

Instrument Performance: All SVOC instrument tuning criteria were acceptable.

Calibration: In the initial calibration related to samples MW48-09 and MW38-09, four compounds had percent relative standard deviations (%RSD) above the acceptable limit. No positive results were reported for these four compounds, and no data are qualified.

In the continuing calibrations several compounds were reported with percent differences (%D) above the acceptable limits. None of the compounds had positive results in the affected samples, and no data are qualified.

Blanks: One internal standard (Perylene-d12) and five surrogates were outside acceptance limits in the method blank (lab ID: SBLKDS) associated with the following ten samples: MW40-09, MW31-09, MW32-09, MW41-09, MW42-09, MW44-09, MW54-09, MW55-09, and MW08-09. These samples were re-extracted and a new method blank was re-analyzed. One compound, bis (2-Ethylhexyl) phthalate, was detected at a concentration of 1 ug/L in the method blank associated with the re-extracted samples. No positive results for this compound were reported, and no data are qualified.

One compound, Di-n-butylphthalate, was detected at a concentration of 1 ug/L in the method blank associated with the following samples: MW38-09RE, MW18-09RE, MW48-09 (diluted and undiluted), FB01-09, and MW28-09. No positive results for this compound were reported, and no data are qualified.

One compound, bis (2-Ethylhexyl) phthalate, was detected at a concentration of 1 ug/L in the method blank associated with sample MW39-09RE. No positive results for this compound were reported, and no data are qualified.

In other method blanks, several tentatively identified compounds (TICs) were identified. No data is qualified due to TICs in the method blanks.

The field blank (FB01-09) had a positive result for bis (2-Ethylhexyl) phthalate at a concentration of 2 ug/L. Samples results for this compound less than 10 ug/L are estimated and flagged "J."

Surrogates: All surrogate recoveries for all samples and blanks (re-extracted when applicable) are within quality control (QC) limits with the exception of two surrogates in MW38-09RE. One surrogate relates to the base/neutral SVOCs, and one surrogate relates to the acid SVOCs. No data in this sample is qualified because at least two surrogates from each fraction of SVOCs must be outside QC limits in order to qualify data.

Matrix Spikes: Sample MW42-09 was submitted with extra volume for use as the matrix spike (MS) and matrix spike duplicate (MSD). The MS/MSD recoveries for 4-Nitrophenol and Pentachlorophenol were high. According to the validation guidance document, data is not qualified on MS/MSD data alone.

Field duplicates: In the field duplicates (MW44-09RE/MW44-99RE), the only compound detected was bis (2-Ethylhexyl) phthalate in MW44-09RE. The relative percent difference (RPD) is approximately 200%, which is above acceptable limits. The detected compound is considered estimated, and is flagged "J."

Internal Standards: Responses from internal standards in two samples require that some data be qualified and rejected. In sample MW38-09RE, the response for internal standard Perylene-d12 is below 10% of the continuing calibration response. Compounds associated with Perylene-d12 in MW38-09RE are rejected. Additionally in the analysis of MW38-09RE, the response for the internal standard Acenaphthene-d10 is between 10% and 50% of the continuing calibration response. Compounds associated with Acenaphthene-d10 in MW38-09RE are qualified as estimated and flagged "J" for positive results and "UJ" for non-detected results.

In the analysis of sample MW18-09RE, the response for internal standard Perylene-d12 is between 10% and 50% of the continuing calibration response. Compounds associated with Perylene-d12 in MW18-09 are qualified as estimated and flagged "J" for detected results and "UJ" for non-detected results.

Compound Identification: SVOC target compound qualitative identification criteria, including relative retention times and mass spectra criteria were acceptable.

System Performance: SVOC system performance resolution and peak shape was acceptable.

Sample Results: Generally, data quality by the laboratory was acceptable. Although QC problems encountered during the validation procedures required some data to be rejected, these qualifications are not expected to drastically influence data usability. QC issues discovered during validation of this data will be addressed with the laboratory and specific corrective actions will be outlined to reduce the likelihood of such QC issues in the future.

Table 1-1
Summary of Qualified SVOC Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
MW38-09RE	2,4,6-Trichlorophenol	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2,4,5-Trichlorophenol	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2-Chloroaphthalene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2-Nirtoaniline	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Acenaphthylene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2,6-Dinitrotoulene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	3-Nitroaniline	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Acenaphthene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2,4-Dinitrophenol	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	4-Nitrophenol	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Dibenzofuran	<10.	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	2,4-Dinitrotoulene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Diethylphthalate	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	4-Chlorophenyl-phenylether	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Fluorene	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	4-Nitroaniline	<10	UJ	Internal standard (Acenaphthene-d10) within 10% - 50% of the 12 hour standard.
MW38-09RE	Benzo(b)fluoranthene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW38-09RE	Benzo(k)fluoranthene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW38-09RE	Benzo (a) pyrene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW38-09RE	Dibenzo (a,h) anthracene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW38-09RE	Benzo (g,h,i) perylene	<10	R	Internal standard (Perylene-d12) below 10% of the 12 hour standard
MW18-09RE	Benzo(b)fluoranthene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
MW18-09RE	Benzo(k)fluoranthene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
MW18-09RE	Benzo (a) pyrene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
MW18-09RE	Dibenzo (a,h) anthracene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
MW18-09RE	Benzo (g,h,i) perylene	<10	UJ	Internal standard (Perylene-d12) between 10% and 50% of the 12 hour standard
FB01-09	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit. Therefore, the concentration is estimated.
MW44-09RE	Bis (2-Ethylhexyl) phthalate	. 6	J.	Below the reporting limit, present in the field blank, Duplicate RPDs are above

Table 1-1
Summary of Qualified SVOC Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
				acceptance limits, and holding time was exceeded. Therefore, the concentration is estimated.
MW42-09RE	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW55-09RE	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW32-09RE	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW31-09RE	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW40-09RE	Bis (2-Ethylhexyl) phthalate	1	J	Below the reporting limit, present in the field blank, and holding time was exceeded. Therefore, the concentration is estimated.
MW28-09	Bis (2-Ethylhexyl) phthalate	2	J	Below the reporting limit and present in the field blank. Therefore, the concentration is estimated.

The following is a list of samples which are qualified due to re-extraction outside holding times. No positive results were reported, other than those listed above. Therefore, all results are qualified as estimated and flagged "UJ."

MW40-09RE	MW55-09RE
MW31-09RE	MW44-99RE
MW39-09RE	MW54-09RE
MW32-09RE	MW44-09RE
MW41-09RE	MW42-09RE
MW08-09RE	

J Data are considered estimated

UJ The compound was analyzed for, but not detected. The reported detection limit is estimated because quality control criteria were not met.

R The sample results are rejected (analyte may or may not be present) due to gross deficiencies in quality control criteria. Any reported value is unusable. Sample Ids with an "RE" at the end are the results for the re-extracted analyses.

#### VALIDATION NARRATIVE

Project:

ACS - quarterly GW sampling

Analysis:

Pest/PCBs

Number:

34100

Matrix:

Water

Validated by: JFW

Date:

10/11/99

SDG: 00002

This narrative summarizes the results of the data validation of sisxteen groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by CompuChem for pesticides and polychlorinated biphenyls (PCBs) following Contract Laboratory Program (CLP) procedures. Data validation was performed using the USEPA Contract Laboratory Program National Functional Guidelines of Organic Analysis Review (February 1994). Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please refer to Table 1-1 for a summary of qualified data.

Holding Time: All samples were analyzed within specified holding times.

Instrument Performance: Not applicable.

Calibration: Initial and continuing calibration criteria were met for all analytical sequences.

Blanks: Methods blanks, trip blanks and field blanks were free of target analytes.

Surrogates: All surrogate recoveries for all samples and blanks were within quality control (OC) limits with the exception of tetrachlorometaxylene in MW48-09 and decachlorobiphenyl in FB01-09. Sample ID MW48-09 was not qualified since surrogate recovery was above acceptance limits and the sample was free of target analytes. All analytes in sample ID FB01-09 were qualified with UJ since reporting limits are estimates due to the low surrogate recovery.

Matrix Spikes: Sample ID ACSGWMW44-09 was selected for MS/MSD analyses. All percent recoveries were within acceptance limits.

Field Duplicate: The field duplicate pair, ACSGWMW44-09/ACSGWMW44-99 had no detectable target analytes above the reporting limit.

Internal Standards: Not applicable.

Compound Identification: Pesticides were qualitatively confirmed using second column GC. However, the percent difference between the primary column and secondary column concentrations exceeded 25%. Samples are qualified with a P to denote the lack of quantitative confirmation.

Samples were free of PCBs.

System Performance: GC system performance resolution and peak shape was acceptable.

Sample Results: Laboratory data quality was acceptable. Some pesticides were qualified as estimates since the results were below the reporting limit.

Table 1-1
Summary of Qualified Pesticide and PCB Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration	Qualifiers	Reason
<u></u>		(μ <b>g/L</b> )	·	
ACSGWMW31-09	Beta-BHC	0.014	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW31-09	Delta-BHC	0.0013	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW44-09	Aldrin	0.0018	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW44-09	Heptachlor epoxide	0.0011	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
ACSGWMW44-09	Gamma-Chlordane	0.0011	JP	Below the reporting limit and greater than 25% difference for detected
ACSGWMW44-99	Heptachlor	0.0023	JP	concentrations between two columns. Therefore, the concentration is estimated.  Below the reporting limit and greater than 25% difference for detected
ACSGWMW55-09	Beta-BHC	0.016	JP	concentrations between two columns. Therefore, the concentration is estimated.  Below the reporting limit and greater than 25% difference for detected
ACSGWMW55-09	Delta-BHC	0.0023	JP	concentrations between two columns. Therefore, the concentration is estimated. Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW18-09	Methoxychlor	0.01	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW28-09	Alpha-chlordane	0,0025	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Delta-BHC	0.0056	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Heptachlor	0.0083	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Dieldrin	0.0074	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	4,4'-DDE	0.0086	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.

Table 1-1 Summary of Qualified Pesticide and PCB Data for ACS Quarterly Groundwater Monitoring (SDG0002 - June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
MW38-09	Methoxychlor	0.11	J	Below the reporting limit. Therefore, the concentration is estimated.
MW38-09	Endrin	0.0068	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Endosulfan sulfate	0.027	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	4,4'-DDT	0.068	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Endrin Ketone	0.0064	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW38-09	Gamma-chlordane	0.0083	J	Below the reporting limit. Therefore, the concentration is estimated.
MW48-09	Alpha-BHC	0.011	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
MW48-09	Heptachlor	0.0018	JP	Below the reporting limit and greater than 25% difference for detected concentrations between two columns. Therefore, the concentration is estimated.
FB01-09	All Pest/PCBs	ND .	UJ	Surrogate percent recovery below acceptance limits. Therefore, reporting limits are estimates.

Data are considered estimated

P Greater than 25% difference for detected concentrations between two columns.

UJ The compound was analyzed for, but not detected. The reported detection limit is estimated because quality control criteria were not met.

#### VALIDATION NARRATIVE

Project:

ACS – quarterly GW sampling

**Analysis:** 

Metals

Number:

1252042

Matrix:

Water

Validated by: TJW

JW

Date: 8/2099

**SDG:** 00002

This narrative summarizes the results of the data validation of twenty groundwater samples from the American Chemical Service (ACS) site. The quarterly groundwater monitoring samples were analyzed by CompuChem for metals following Contract Laboratory Program (CLP) procedures. Data validation was performed using the USEPA Contract Laboratory Program National Functional Guidelines of Inorganic Analysis Review (February 1994). Based on the data validation, the data are valid as qualified and are acceptable for use in site evaluation. The following summarizes the results of the data validation. Please refer to Table 1-3 for a summary of qualified data.

Holding Time: All samples were analyzed within the acceptable holding times.

Calibration: Initial and continuing calibrations met the acceptable quality control limits.

Laboratory Control Sample: The laboratory control sample met acceptable quality control limits.

Blanks: Some target metals were detected in the method and calibration blanks. Positive results less than 5 times the concentration of the target metal in the blank are considered not detected, and they are flagged "U."

Matrix Spikes: All matrix spike and matrix spike duplicates met the required quality control acceptance criteria.

Field duplicates: Several compounds detected in the field duplicate samples (MW44-09/MW44-99) had relative percent differences (RPDs) greater than the acceptable limits. Positive results for these compounds are considered estimated, and they are flagged "J."

**ICP/AA Quality Control:** A serial dilution was performed on sample MW18-09. The serial dilution percent differences for several compounds were above the 10% acceptance limit. However, no positive results for these compounds were reported, and no data are qualified.

Interference check sample recoveries were within the acceptable limits.

The method of standard additions and post-digestion spikes were not required.

Compound Quantitation: Metals target compound qualitative identification criteria were acceptable.

Sample Results: The overall data quality of the laboratory was acceptable. The laboratory narrative indicates that there was a physical or chemical interference in the analyses for potassium. Results for potassium are estimated and flagged "J."

Table 1-3
Summary of Qualified Metals Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
ATMW4D-09	Aluminum	296	U	The compound was detected in the method blank (MB).
	Béryllium	0.29	U	The compound was detected in the method blank (MB).
	Cobalt	0.97	U	The compound was detected in the continuing calibration blank (CCB).
	Copper	2.7	U	The compound was detected in the CCB.
	Lead	2.0	U	The compound was detected in the CCB.
	Nickel	10.4	U	The compound was detected in the CCB.
	Cyanide	. 4.7	U	The compound was detected in the CCB.
MW12-09	Lead	1.6	U	The compound was detected in the CCB.
MW31-09	Aluminum	34.5	U	The compound was detected in the CCB.
	Arsenic	3.5	U	The compound was detected in the CCB.
	Cobalt	1.4	U	The compound was detected in the CCB.
	Lead <sup>*</sup>	2.6	U	The compound was detected in the CCB.
	Nickel	8.2	U	The compound was detected in the CCB.
	Zinc	1.3	U	The compound was detected in the CCB.
MW32-09	Aluminum	27.7	U	The compound was detected in the CCB.
	Beryllium	0.23	U	The compound was detected in the CCB.
	Cobalt	0.92	U	The compound was detected in the CCB.
	Copper	1.7	U	The compound was detected in the CCB.
	Lead	1.2	U	The compound was detected in the CCB.
	Nickel	0.57	U	The compound was detected in the CCB.
MW40-09	Lead	3.4	U	The compound was detected in the CCB.
MW41-09	Aluminum	99.2	U	The compound was detected in the CCB.
	Antimony	1.4	U	The compound was detected in the method blank (MB).
	Cobalt	1.7.	U	The compound was detected in the CCB.
•	Copper	4.2	U	The compound was detected in the CCB.
	Lead	1.3	. U	The compound was detected in the CCB.
	Nickel	4.7	U -	The compound was detected in the CCB.
MW42-09	Arsenic	2.3	U.	The compound was detected in the method blank (MB).

Table 1-3
Summary of Qualified Metals Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration	Qualifiers	Reason	
Sample	Compound	(μg/ <b>L</b> )	Quantiers	Reason	
	Cobalt	1.4	U	The compound was detected in the CCB.	
•	Copper	1.7	U	The compound was detected in the CCB.	
MW44-09	Arsenic	7.3	U	The compound was detected in the method blank (MB).	
	Cobalt	0.51	U	The compound was detected in the CCB.	
	Copper	2.3	U	The compound was detected in the CCB.	
1 .	Iron	1700	J	Duplicate RPD >20%.	
	Nickel	3.1	U	The compound was detected in the CCB.	
MW44-99	Aluminum	38.9	U	The compound was detected in the CCB.	4.7 4.7
1	Arsenic	17.2	J	Duplicate RPD >20%.	
	Beryllium	0.21	· U	The compound was detected in the CCB.	
	Chromium	48.2	J	Duplicate RPD >20%.	
	Cobalt	0.43	U	The compound was detected in the CCB.	
	Copper	4.1	U	The compound was detected in the CCB.	
	Iron	5810	J	Duplicate RPD >20%.	
	Lead	1.8	U	The compound was detected in the CCB.	
	Nickel	5.4	U	The compound was detected in the CCB.	
MW54R-09	Aluminum	63.8	U	The compound was detected in the CCB.	
	Arsenic	1.8	U	The compound was detected in the CCB.	•
	Cobalt	1.0	U	The compound was detected in the CCB.	
	Copper	1.7	U	The compound was detected in the CCB.	
	Lead	2.0	U	The compound was detected in the CCB.	
	Nickel	3.2	U	The compound was detected in the CCB.	
MW55-09	Aluminum	182	·U	The compound was detected in the CCB.	
	Arsenic	2.1	U	The compound was detected in the CCB.	
	Beryllium	0.26	U	The compound was detected in the CCB.	
	Cobalt	1.8	U	The compound was detected in the CCB.	
	Copper	5.9	U.	The compound was detected in the CCB.	
	Lead	2.0	U.	The compound was detected in the CCB.	
MW8-09	Aluminum	88.5	U	The compound was detected in the CCB.	

Table 1-3
Summary of Qualified Metals Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
	Beryllium	0.26	U	The compound was detected in the CCB.
	Cobalt	1.1	U	The compound was detected in the CCB.
	Copper	1.7	U	The compound was detected in the CCB.
	Lead	. 1.5	U	The compound was detected in the CCB.
	Nickel	3.2	U	The compound was detected in the method blank (MB).
	Zinc	0.97	Ū	The compound was detected in the CCB.
FB01-09	Aluminum	27.2	U	The compound was detected in the CCB.
	Antimony	1.3	U	The compound was detected in the CCB.
	Beryllium	0.27	U	The compound was detected in the CCB.
	Calcium	58.4	U	The compound was detected in the CCB.
	Cobalt	0.93	U	The compound was detected in the CCB.
	Copper	0.40	U	The compound was detected in the CCB.
	Iron	22.1	U	The compound was detected in the CCB.
	Lead	1.1	U	The compound was detected in the CCB.
	Zinc	2.3	U	The compound was detected in the CCB.
MW18-09	Aluminum	13.3	U	The compound was detected in the CCB.
	Antimony	3.3	U	The compound was detected in the CCB.
	Cadmium	0.94	U	The compound was detected in the CCB.
	Cobalt	2.5	U	The compound was detected in the CCB.
	Copper	3.2	U	The compound was detected in the CCB.
	Vanadium	1.1	U	The compound was detected in the CCB.
MW28-09	Aluminum	265	U	The compound was detected in the CCB.
	Cadmium	0.60	U	The compound was detected in the CCB.
	Cobalt	3.1	U	The compound was detected in the CCB.
	Copper	12.9	U	The compound was detected in the CCB.
	Lead	4.2	U	The compound was detected in the CCB.
	Zinc	4.6	U.	The compound was detected in the CCB.
MW38-09	Aluminum	68.4	U	The compound was detected in the CCB.
	Antimony	1.3	U	The compound was detected in the CCB.

Table 1-3 Summary of Qualified Metals Data for ACS Quarterly Groundwater Monitoring (SDG0002 – June '99)

Sample	Compound	Concentration (µg/L)	Qualifiers	Reason
	Cadmium	0.45	Ü	The compound was detected in the CCB.
	Cobalt	5.4	U	The compound was detected in the CCB.
	Copper	13.4	U	The compound was detected in the CCB.
	Lead	1.3	U	The compound was detected in the CCB.
	Nickel	11.7	U	The compound was detected in the CCB.
	Zinc	21.0	U	The compound was detected in the CCB.
MW39-09	Aluminum	25.0	U	The compound was detected in the CCB.
•	Beryllium	0.12	U	The compound was detected in the CCB.
	Cadmium	0.74	U	The compound was detected in the CCB.
	Cobalt	1.2	U	The compound was detected in the CCB.
•	Copper	0.63	U	The compound was detected in the CCB.
•	Lead	1.0	U	The compound was detected in the CCB.
	Vanadium	0.48	U	The compound was detected in the CCB.
MW48-09	Aluminum	119	U	The compound was detected in the CCB.
	Antimony	1.8	U	The compound was detected in the CCB.
	Arsenic	4.0	U	The compound was detected in the CCB.
	Beryllium	0.13	U	The compound was detected in the CCB.
	Cobalt	1.9	U	The compound was detected in the CCB.
	Copper	2.3	U	The compound was detected in the CCB.
	Vanadium	2.0	U	The compound was detected in the CCB.
	Zinc	4.3	U	The compound was detected in the CCB.

Data are considered estimated

The analyte is not detected in the sample.

### MEMORANDUM



To:

Trisha Woolslayer, MW

Date:

August 24, 1999

From:

Gilbert Dimidjian, MW

Job No.:

1252042

Subject:

Data Validation for American

SDG:

003

Chemical Service (ACS). Griffith, Indiana.

June 1999

#### INTRODUCTION

The following text is based on the validation of water samples collected at American Chemical Service, Inc. in June of 1999.

Nine water samples and two field quality assurance samples were analyzed by CompuChem Laboratories, Cary, North Carolina for the following parameters:

- VOA's by CLP OLM 3.0
- SVOA's by CLP OLM 3.0
- Pesticides/PCB's by CLP OLM 3.0
- Inorganics by CLP ILM04.0
- Cyanide by CLP ILM04.0

Data validation was conducted in accordance with procedures specified in *Pre-Design Activities Quality Assurance Project Plan (MW, 1995), National Functional Guidelines for Organic Data Review (USEPA, 1994a), and National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).* 

The following field quality control samples were collected during the June 1999 sampling round:

• Two field duplicates: M4S-99 duplicate of M4S-09; and MW06-99 duplicate of MW06-09.

This memorandum contains a narrative summarizing the data quality objectives specified in the work plan, and provides a table of qualified data (Table 1-1 and 1-2) and supporting validation documentation (Attachment A).

#### **SUMMARY**

This section describes the quality control parameters reviewed during validation, summarizes the data quality objectives as a result of the validation and provides a summary of the deficiencies and qualification applied. The following paragraphs describe deficiencies that were identified which resulted in qualification of the sample results. Each analysis is separated into sections for clarity.

### **Volatile Organic Componds**

Major Deficiencies: The following paragraphs describe the major deficiencies identified during the validation process.

### Holding Time

• Sample MW19-09 was received at a pH of 5, and therefore the sample was required to be analyzed within 7 days. Subsequently, the sample was analyzed 7 days pass the required holding time. All positive results were qualified as an estimate "J" and non-detects were qualified as "UJ".

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

#### Initial Calibration

• The initial calibration (on 6/20/99; 1249) %RSD for acetone (51.5 percent) were above the control limit of 30 percent. All positive results were qualified as an estimate "J" for acetone.

#### Continuing Calibration

- The continuing calibration (CS990623B57) for 2-butanone (31.5 percent), 4-methyl-2-pentanone (25.9 percent), and 2-hexanone had a percent difference that exceeded the control limit of ±25 percent. The associated samples were MW50-09, MW19-09, MW45-09, M4S-09, M4S-99, and M15-09. All positive results were qualified as an estimate "J" and non-detects as "UJ".
- The continuing calibration (CS990629A57) for chloromethane (25.9 percent) had a percent difference that exceeded the control limit of ±25 percent. The associated samples were MW14-09, MW09R-09, MW06-99, MW06-09, and MW10C-09. All positive results were qualified as an estimate "J" and non-detects as "UJ".
- The continuing calibration (CS990629B57) for 2-butanone (30.4 percent) and 1,1,2,2-tetrachloroethane (31.3 percent) had a percent difference that exceeded the control limit of ±25 percent. No qualification was required because no samples were associated with this calibration.

### Semi-Volatile Organic Compounds

<u>Major Deficiencies</u>: The following paragraphs describe the major deficiencies identified during the validation process.

#### Holding Time

• Samples MW19-09RE, MW45-09RE, and MW50-09RE were extracted pass holding times (20 days). All positive results were qualified as estimate "J" and non-detects as "UJ". These were reanalysis samples.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

### Initial Calibration

- The initial calibration (on 6/30/99; 2221) %RSD for 2,4-dinitrophenol (36.1 percent) exceeded the control limit of 30 percent. All positive results were qualified as estimate "J" and non-detects as "UJ". The associated samples were MW50-09RE, MW19-09RE, and MW45-09RE.
- The initial calibration (on 7/20/99; 1006) %RSD for 2,4-dinitrophenol (33.6 percent) exceeded the control limit of 30 percent. No qualification was required because no samples were associated with this calibration.

### Continuing Calibration

- Continuing calibration HG990622A66 had a percent difference for 1-chloropropane (26.3 percent), nitrobenzene (34.1 percent), 4-nitrophenol (30 percent), pentachlorophenol (38.7 percent), and 3,3-dichlorobenzidine (40.4 percent) that exceeded the control limit of 25 percent. All positive results were qualified as estimate "J" and non-detects "UJ". The associated samples included MW09R-09, MW06-99, MW14-09, MW06-09, and MW10C-09.
- Continuing calibration HG990709A66 had a percent difference for 2-methylphenol (27.1 percent), n-nitroso-di-n-propylamine (27.6 percent), 2,6-dinitrotoluene (26.6 percent), 2,4-dinitrophenol (28.6 percent), and 2,4-dinitrotoluene (31.4 percent) that exceeded the control limit of 25 percent. All positive results were qualified as estimate "J" and non-detects "UJ". The associated samples included MW50-09RE, MW19-09RE, and MW45-09RE.
- Continuing calibration HG990706B70 had a percent difference for 2-methylnaphthalene (26.1 percent), 4-nitroaniline (27.6 percent), carbazole (36.5 percent), and fluoranthene (32.4 percent) that exceeded the control limit of 25 percent. All positive results were qualified as an estimate "J" and non-detects "UJ". The associated samples were M4S-09, M4S-99, and MW15-09.
- Continuing calibration HG990707A70 had a percent difference for pentachlorophenol (36.4 percent), 2-methylphenol (25.5 percent), 4-methylphenol (29.5 percent), nitrobenzene (27.1 percent), hexachlorocyclopentadiene (39.9 percent), and 2,4-dinitrophenol (38.6 percent) that exceeded the control limit of 25 percent. All positive results were qualified as an estimate "J" and non-detects "UJ". The associated sample includes M4S-99DL (dilution).

Samples MW19-09, MW45-09, and MW50-09 were initially extracted within the required holding time, along with a method blank. The method blank was analyzed prior to the samples to determine if all QC criteria and contamination criteria had been met. In the analysis of the blank (SBLKDS), one or more of the internal standards and one or more of the surrogates failed acceptance criteria and many extraneous peaks were observed on the chromatogram. Because the QC criteria failed for this blank, the associated samples were re-extracted with another method blank. The repeat extractions, however, were performed outside of the required holding time. According to the laboratory, the failing responses and recoveries can be attributed to a possible laboratory error during the extraction procedure. The data for the initial and repeat (RE) extracts of the samples were reported by the laboratory. The results were then compared to determine the most representative data in table 1-3. It was determined that the re-analysis results were more representative and, therefore, would be used for reporting and validation purposes.

### Pesticides / PCBs

Major Deficiencies: There were no major deficiencies identified during the validation process.

<u>Minor Deficiencies</u>: There were no minor deficiencies identified which required qualification. Please refer to the Data Quality Objectives section for additional comments.

### **Inorganics / Cyanide**

<u>Major Deficiencies</u>: The following paragraphs describe the major deficiencies identified during the validation process.

### Holding Time

• Samples MW50-09, MW19-09, MW45-09, M4S-09, M4S-99, MW15-09, MW14-09, MW09R-09, MW06-99, MW-06-09, and MW10C-09 which were analyzed for mercury exceeded the holding time requirement of 28 days from one to five days. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.

<u>Minor Deficiencies</u>: The following paragraphs describe the minor deficiencies that were identified during the validation process.

#### Serial Dilution

 The percent difference for potassium (18.5 percent) exceeded the control limit of ±10% in sample MW09R-09L. All positive results were qualified as estimated "J".

Several samples contained detected concentrations of target analytes at concentrations between the instrument detection limit (IDL) and the contract required detection limit (CRDL). These were qualified as "B" by the laboratory, but during the validation process these qualifications were changed to a "J" flag which indicates an estimate. Table 1-2 summarizes the affected samples and analytes.

### DATA QUALITY OBJECTIVES

The following is a summary of the data quality objectives that were evaluated during the data validation process.

Reporting Limits: Reporting limits were met for all analyses with the following exception.

- For VOCs: Reporting limits were met with the exception of cases in which dilution was necessary. Original, out-of-calibration range data have been included for confirmation of original detection limits and detections, when available. Sample MW45-09, M4S-09, M4S-99, MW06-99, and MW10C-09 was only analyzed as a dilution due to a high analyte concentration; therefore, no original out of calibration range data was included with this sample package. No data were qualified as a result.
- For SVOCs: Less than the method specified amount of raw sample was used for the extractions of some of the samples. The lower sample volumes resulted in slightly higher detection limits for these samples. The laboratory was contacted and they explained that the volume in the sample bottles they received were short, so they had to compensate and bring it back to 1mL. Original, out-of-calibration range data have been included for confirmation of original detection limits and detections, when available.

### Accuracy

<u>Laboratory Control Sample:</u> Validation of the LCS was not performed for the organic analyses because the data was not provided by the laboratory and is not required per OLM 3.0. The LCS for the inorganic analyses were within control limits and analyzed at the correct frequency.

<u>Surrogates:</u> The surrogate results were within laboratory specified limits with the following exceptions.

- For SVOCs: Surrogates nitrobenzene-d5 (115 percent) and 2,4,6-tribromophenol (126 percent) had recoveries above the upper control limit with a high bias. All positive results were qualified as an estimate "J". The associated sample was MW10C-09.
- For Pesticides/PCBs: Surrogate recoveries for TCX exceeded the upper control limits of 30-150 percent. No qualification was required because the high recovery was only present in the 2<sup>nd</sup> column which indicates co-elution and a high bias. The associated samples were MW06-99 and MW06-09.

Matrix Spike / Matrix Spike Duplicate: The MS/MSD results were within laboratory specified limits with the following exceptions.

- For SVOCs: MS/MSD recoveries exceeded the upper control limits, with a high bias. No qualification was required.
- For Pesticides/PCBs: MS/MSD RPD exceeded the control limits for various compounds, which represented a high bias. MS/MSD recoveries were within control limits and surrogate recoveries were acceptable. No qualification was required.

• For Inorganics / Cyanide: Spike sample MW09R-09S had recoveries for selenium (130 percent) that exceeded the upper control limits. All positive results were qualified as estimated "J".

#### **Precision**

### Field Duplicates:

- For VOCs: RPDs were calculated for benzene (5.7 percent) and chloromethane (6.5 percent) in field duplicate pair M4S-09 and M4S-99, and for chloromethane (24.7 percent), acetone (96.3 percent), and benzene (28.6 percent) in field duplicate pair MW06-09 and MW06-99.
- For SVOCs: RPDs were calculated for bis(2-chloroethyl) ether (29.6 percent) in field duplicate pair M4S-09 and M4S-99, and for bis(2-chloroethyl) ether (7.4 percent) in field duplicate pair MW06-09 and MW06-99.
- For Pesticides / PCBs: RPDs were calculated for beta-BHC (139.6 percent) in field duplicate pair MW06-09 and MW06-99.
- For Inorganics / Cyanide: RPDs were calculated for barium (22.6 percent), iron (20.9 percent), and sodium (23.6 percent) in field duplicate pair M4S-09 and M4S-99.

There are no qualification requirements for field QC samples exceeding limits.

<u>Laboratory Duplicate Sample:</u> For inorganics / cyanide: Lab duplicate MW09R-09D had RPDs which exceeded the control limit ranges for beryllium, cadmium, and zinc. All positive results were qualified as estimated "J". The associated samples were MW50-09, MW19-09, MW45-09, MW5-09, MW15-09, MW15-09, MW15-09, MW06-99, MW-06-09, and MW10C-09.

The overall results were acceptable, indicating that sampling and analytical precision objectives were met for the sampling event.

#### Completeness

The data package was complete for the requested analyses. No results were considered unusable. The completeness was 100 percent, which meets the completeness objective of 95 percent.

#### Representativeness:

No field blank samples were associated with this SDG.

#### Comparability:

All data were reported in similar units to facilitate comparison of results within the data packages. Samples arrived at the laboratory at 4°C, which is within the limits of 2-6°C. It should be noted that several samples were analyzed by EPA method CLP-VOA OLM3.0, CLP-SVOA OLM3.0, and CLP-Inorganics OLM 4.0 were analyzed after the recommended holding time. Because of the holding time exceedence, comparability might be affected.

As a result of this evaluation, all data within this SDG for wells at American Chemical Service are of known and acceptable quality in relation to the DQOs of this project. Although significant qualification were required due to holding time violation, the data are considered usable as qualified for the intended purposes. Table 1-1 and 1-2 summarizes the validation and laboratory qualifications for this sampling event.

### REFERENCES

Pre-Design Activities Quality Assurance Project Plan, American Chemical Service, Inc. NPL Site, Griffith Indiana (MW, 1995).

National Functional Guidelines for Organic Data Review (USEPA, 1994a).

National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).

TABLE 1-1

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
944694	MW50-09	2-Butanone	10	μg/L	ÜJ	High	Continuing Calibration >CL
,	(VOC)	4-Methyl-2-Pentanone	10	μg/L	UJ	High	Continuing Calibration >CL
	, ,	2-Hexanone	10	μg/L	UJ	High	Continuing Calibration >CL
		Acetone	2	μg/L	JB	High	IC RSD > CL / blank contamination
	(SVOC)	Phenol	10	μg/L	UJ	Low	Holding Time Missed
		bis (2-Chloroethyl) ether	10	μg/L	UJ	Low	Holding Time Missed
		2-Chlorophenol	10	μg/L	UJ	Low	Holding Time Missed
		1,3-Dichlorobenzene	10	μg/L	UJ	Low	Holding Time Missed
		1,4-Dichlorobenzene	10	μg/L	UJ	Low	Holding Time Missed
		1,2-Dichlorobenzene	10	μg/L	UJ .	Low	Holding Time Missed
		2-Methylphenol	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
		2,2-oxybis (1-Chloropropane)	10	μg/L	UJ	Low	Holding Time Missed
		4-Methylphenol	10	μg/L	UJ	Low	Holding Time Missed
		N-Nitroso-di-n-propylamine	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
		Hexachloroethane	10	μg/L	UJ	Low	Holding Time Missed
		Nitrobenzene	10	μg/L	UJ	Low	Holding Time Missed
		Isophorone	10	μg/L	UJ	Low	Holding Time Missed
		2-Nitrophenol	10	μg/L	UJ	Low	Holding Time Missed
		2,4-Dimethylphenol	10	μg/L	IJ	Low	Holding Time Missed
		bis (2-Chloroethoxy) methane	10	μg/L	UJ	Low	Holding Time Missed
		2,4-Dichlorophenol	10	μg/L	UJ	Low	Holding Time Missed
		1,2,4-Trichlorobenzene	10	μg/L	UJ	Low	Holding Time Missed
		Napthalene	10	μg/L	UJ	Low	Holding Time Missed
		4-Chloroaniline	10	μg/L	UJ	Low	Holding Time Missed
		Hexachlorobutadiene	10	μg/L	UJ	Low	Holding Time Missed
		4-Chloro-3-methylphenol	10	μg/L	UJ	Low	Holding Time Missed
•	,	2-Methylnapthalene	10	μg/L	UJ	Low	Holding Time Missed
•		Hexachlorocyclopentadiene	10	μg/L	UJ	Low	Holding Time Missed
		2,4,6-Trichlorophenol	10	μg/L	UJ	Low	Holding Time Missed

TABLE 1-1

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW50-09	2,4,5-Trichlorophenol	26	μg/L	UJ	Low	Holding Time Missed
, ,	(SVOC)	2-Chloronapthalene	10	μg/L	UJ	Low	Holding Time Missed
		2-Nitroaniline	26	μg/L	UJ	Low	Holding Time Missed
		Dimethylphthalate	10	µg/L	UJ	Low	Holding Time Missed
		Acenaphthylene	10	μg/L	UJ	Low	Holding Time Missed
		2,6-Dinitrotoluene	. 10	μg/L	UJ	Low	Holding Time Missed / CC > CL
		3-Nitroaniline	26	μg/L	UJ	Low	Holding Time Missed
		Acenaphthene	10	μg/L	UJ	Low	Holding Time Missed
		2,4-Dinitrophenol	26	μg/L	UJ	Low	Holding Time Missed / CC > CL / IC %difference > CL
		4-Dinitrophenol	26	μg/L	UJ	Low	Holding Time Missed
		Dibenzofuran	10	μg/L	UJ	Low	Holding Time Missed
		2,4-Dinitrotoluene	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
		Diethylphthalate	10	μg/L	UJ	Low	Holding Time Missed
		4-Chlorophenyl-phenylether	10	μg/L	UJ	Low	Holding Time Missed
		Fluorene	10	μg/L	UJ	Low	Holding Time Missed
		4-Nitroaniline	26	μg/L	, <b>UJ</b>	Low	Holding Time Missed
		4,6-Dinitro-2-methylphenol	26	μg/L	UJ	Low	Holding Time Missed
		N-nitrosodiphenylamine	10	μg/L	UJ	Low	Holding Time Missed
		4-Bromophenyl-phenylether	10	μg/L	UJ	Low	Holding Time Missed
		Hexachlorobenzene	10	μg/L	UJ	Low	Holding Time Missed
		Pentachlorophenol	26	μg/L	UJ	Low	Holding Time Missed
		Phenanthrene	10	μg/L	UJ	Low	Holding Time Missed
	•	Anthracene	10	μg/L	UJ	Low	Holding Time Missed
		Carbazole	10	μg/L	UJ .	Low	Holding Time Missed
		Di-n-butylphthalate	10	μg/L	UJ	Low	Holding Time Missed
		Fluoranthene	10	μg/L	UJ	Low	Holding Time Missed
	•	Pyrene	10	μg/L	UJ	Low	Holding Time Missed
		Butylbenzylphthalate	10	μg/L	UJ	Low	Holding Time Missed
	•	3,3-Dichlorobenzidine	10	μg/L	UJ	Low	Holding Time Missed

TABLE 1-1

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW50-09	Benzo (a) anthracene	10	μg/L	UJ	Low	Holding Time Missed
(65)	(SVOC)	Chrysene	10	μg/L	UJ	Low	Holding Time Missed
	, ,	bis (2-Ethylhexyl) phthalate	10	μg/L	UJ	Low	Holding Time Missed
1		Di-n-octylphthalate	10	μg/L	UJ	Low	Holding Time Missed
		Benzo (b) fluoranthene	10	μg/L	UJ	Low	Holding Time Missed
	·	Benzo (k) fluoranthene	10	μg/L	UJ	Low	Holding Time Missed
		Benzo (a) pyrene	10	· μg/L	UJ	Low	Holding Time Missed
•		Ideno (1,2,3-cd) pyrene	10	μg/L	UJ	Low	Holding Time Missed
		Dibenzo (a,h) anthracene	. 10	μg/L	UJ	Low	Holding Time Missed
		Benzo (g,h,i) perylene	10	μg/L	UJ	Low	Holding Time Missed
	(Pesticide/PCB)	beta-BHC	0.0090	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		delta-BHC	0.00098	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		Methoxychlor	0.0063	μg/L	JPB	NDT	>25% diff. between two GC columns / blank contam. / below RI
944711	MW19-09	Chloromethane	. 10	μg/L	UJ	Low	Missed Holding Time for pH > 2
	(VOC)	Bromomethane	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
	•	Vinyl Chloride	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		Chloroethane	14	μg/L	J	Low	Missed Holding Time for $pH > 2$
	•	Methylene Chloride	3	μg/L	J	Low	Missed Holding Time for pH > 2 / below RL
•		Acetone	19	μg/L	JB	Low	Missed HT for pH > 2 / IC RSD > CL / blank contamination
		Carbon Disulfide	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
	•	1,1-Dichloroethene	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		1,1-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		Chloroform	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
•		1,2-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
	•	2-Butanone	2	μg/L	JB	Low	Missed HT for pH > 2 / blnk contamin. / CC > CL / below RL
•	•	1,1,1-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time for pH > 2

TABLE 1-1

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW19-09	Carbon Tetrachloride	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
` ,	(VOC)	Bromodichloromethane	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		1,2-Dichloropropane	. 10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		cis-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		Trichloroethene	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		Dibromochloromethane	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		1,1,2-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		Benzene	7	μg/L	J	Low	Missed Holding Time for pH > 2 / below RL
		trans-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		Bromoform	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		4-Methyl-2-Pentanone	3	μg/L	JВ	Low	Missed HT for pH > 2 / blnk contamin. / CC > CL / below RI
		2-Hexanone	3	μg/L	JB	Low	Missed HT for pH > 2 / blnk contamin. / CC > CL / below R
		Tetrachloroethene	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		1,1,2,2-Tetrachloroethane	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		Toluene	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
	•	Chlorobenzene	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		Ethylbenzene	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		Styrene	0	μg/L	UJ	Low	Missed Holding Time for pH > 2
		Xylene (total)	10	μg/L	UJ	Low	Missed Holding Time for pH > 2
		1,2-Dichloroethene (total)	10	μg/L	UJ	Low	Missed Holding Time for $pH > 2$
	(SVOC)	Phenol	10	μg/L	UJ	Low	Missed Holding Time
		bis (2-Chloroethyl) ether	23	μg/L	J	Low	Missed Holding Time
		2-Chlorophenol	10	μg/L	UJ	Low	Missed Holding Time
		1,3-Dichlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		1,4-Dichlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
•		1,2-Dichlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		2-Methylphenol	10	μg/L	UJ	Low	Holding Time Missed / CC > CL

TABLE 1-1

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW19-09	2,2-oxybis (1-Chloropropane)	4	μg/L	J	Low	Missed Holding Time / below RL
	(SVOC)	4-Methylphenol	10	μg/L	UJ	Low	Missed Holding Time
		N-Nitroso-di-n-propylamine	10	μg/Ĺ	UJ	Low	Holding Time Missed / CC > CL
		Hexachloroethane	10	μg/L	UJ	Low	Missed Holding Time
	•	Nitrobenzene	10	μg/L	UJ	Low	Missed Holding Time
	•	Isophorone	10	μg/L	UJ	Low	Missed Holding Time
		2-Nitrophenol	10	μg/L	UJ	Low	Missed Holding Time
		2,4-Dimethylphenol	10	μg/L	UJ	Low	Missed Holding Time
		bis (2-Chloroethoxy) methane	10	μg/L	UJ	Low	Missed Holding Time
1	•	2,4-Dichlorophenol	10	μg/L	UJ	Low	Missed Holding Time
		1,2,4-Trichlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		Napthalene	10	μg/L	UJ	Low	Missed Holding Time
	•	4-Chloroaniline	10	μg/L	UJ	Low	Missed Holding Time
·		Hexachlorobutadiene	10	μg/L	UJ	Low	Missed Holding Time
		4-Chloro-3-methylphenol	10	μg/L	UJ	Low	Missed Holding Time
		2-Methylnapthalene	10	μg/L	UJ	Low	Missed Holding Time
•		Hexachlorocyclopentadiene	10	μg/L	UJ	Low	Missed Holding Time
		2,4,6-Trichlorophenol	10	μg/L	UJ	Low	Missed Holding Time
		2,4,5-Trichlorophenol	25	μg/L	UJ	Low	Missed Holding Time
		2-Chloronapthalene	10	μg/L	UJ	Low	Missed Holding Time
		2-Nitroaniline	25	μg/L	UJ	Low	Missed Holding Time
		Dimethylphthalate	10	μg/L	UJ	Low	Missed Holding Time
		Acenaphthylene	10	μg/L	UJ	Low	Missed Holding Time
	i .	2,6-Dinitrotoluene	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
		3-Nitroaniline	25	μg/L	UJ	Low	Missed Holding Time
	•	Acenaphthene	10	μg/L	UJ	Low	Missed Holding Time
	•	2,4-Dinitrophenol	25	μg/L	UJ	Low	HT Missed/ CC %Difference > CL / IC % Difference>CL
	·	4-Dinitrophenol	25	μg/L	UJ	Low	Missed Holding Time

TABLE 1-1

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW19-09	Dibenzofuran	10	μg/L	UJ	Low	Missed Holding Time
` ,	(SVOC)	2,4-Dinitrotoluene	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
		Diethylphthalate	10	μg/L	UJ	Low	Missed Holding Time
	•	4-Chlorophenyl-phenylether	10	μg/L	UJ	Low	Missed Holding Time
		Fluorene	10	μg/L	UJ	Low	Missed Holding Time
		4-Nitroaniline	25	μg/L	UJ	Low	Missed Holding Time
		4,6-Dinitro-2-methylphenol	25	μg/L	UJ	Low	Missed Holding Time
		N-nitrosodiphenylamine	10	μg/L	UJ	Low	Missed Holding Time
		4-Bromophenyl-phenylether	10	μg/L	UJ	Low	Missed Holding Time
		Hexachlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		Pentachlorophenol	25	μg/L	UJ	Low	Missed Holding Time
		Phenanthrene	10	μg/L	UJ	Low	Missed Holding Time
		Anthracene	. 10	μg/L	UJ	Low	Missed Holding Time
		Carbazole	10	μg/L	UJ	Low	Missed Holding Time
		Di-n-butylphthalate	10	μg/L	UJ	Low	Missed Holding Time
		Fluoranthene	10	μg/L	UJ	Low	Missed Holding Time
		Ругепе	10	μg/L	UJ	Low	Missed Holding Time
		Butylbenzylphthalate	10	μg/L	UJ	Low	Missed Holding Time
		3,3-Dichlorobenzidine	10	μg/L	UJ	Low	Missed Holding Time
		Benzo (a) anthracene	10	μg/L	UJ	Low	Missed Holding Time
		Chrysene	10	μg/L	UJ	Low	Missed Holding Time
		bis (2-Ethylhexyl) phthalate	1	μg/L	J	Low	Missed Holding Time / below RL
		Di-n-octylphthalate	10	μg/L	UJ	Low	Missed Holding Time
		Benzo (b) fluoranthene	10	μg/L	UJ	Low	Missed Holding Time
		Benzo (k) fluoranthene	10	μg/L	UJ	Low	Missed Holding Time
		Benzo (a) pyrene	10	μg/L	UJ	Low	Missed Holding Time
		Ideno (1,2,3-cd) pyrene	10	μg/L	UJ	Low	Missed Holding Time
		Dibenzo (a,h) anthracene	10	μg/L	UJ	Low	Missed Holding Time

TABLE 1-1

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW19-09 (SVOC)	Benzo (g,h,i) perylene	10	μg/L	UJ	Low	Missed Holding Time
	(Pesticide/PCB)	alpha-BHC	0.0038	μg/L	JР	NDT	>25% difference between two GC columns / below RL
		beta-BHC	0.022	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		delta-BHC	0.0019	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		Heptachlor	0.0044	μg/L	JР	NDT	>25% difference between two GC columns / below RL
		Endosulfan II	0.0019	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		alpha-Chlordane	0.0053	μg/L	JP .	NDT	>25% difference between two GC columns / below RL
944740	MW45-09	2-Butanone	50	μg/L	UJ	High	Continuing Calibration >CL
	(VOC)	4-Methyl-2-Pentanone	50	μg/L	UJ	High	Continuing Calibration >CL
		2-Hexanone	50	μg/L	UJ	High	Continuing Calibration >CL
1	(SVOC)	Phenol	31	μg/L	J	Low	Missed Holding Time
		bis (2-Chloroethyl) ether	4	μg/L	J	Low	Missed Holding Time / below RL
		2-Chlorophenol	10	μg/L	UJ	Low	Missed Holding Time
		1,3-Dichlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
•	-	1,4-Dichlorobenzene	2	μg/L	J	Low	Missed Holding Time / below RL
		1,2-Dichlorobenzene	4	μg/L	J	Low	Missed Holding Time / below RL
		2-Methylphenol	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
•		2,2-oxybis (1-Chloropropane)	7	μg/L	J	Low	Missed Holding Time / below RL
		4-Methylphenol	10	μg/L	UJ	Low	Missed Holding Time
		N-Nitroso-di-n-propylamine	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
		Hexachloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Nitrobenzene	10	μg/L	UJ .	Low .	Missed Holding Time
		Isophorone	10	μg/L	UJ	Low	Missed Holding Time
	ı	. 2-Nitrophenol	10	μg/L	UJ	Low	Missed Holding Time

TABLE 1-1

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW45-09	2,4-Dimethylphenol	10	μg/L	UJ	Low	Missed Holding Time
	(SVOC)	bis (2-Chloroethoxy) methane	10	μg/L	UJ	Low	Missed Holding Time
	•	2,4-Dichlorophenol	10	μg/L	UJ	Low	Missed Holding Time
		1,2,4-Trichlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		Napthalene	11	μg/L	J	Low	Missed Holding Time
		4-Chloroaniline	10	μg/L	UJ	Low	Missed Holding Time
		Hexachlorobutadiene	10	μg/L	UJ	Low	Missed Holding Time
		4-Chloro-3-methylphenol	10	μg/L	UJ	Low	Missed Holding Time
		2-Methylnapthalene	0.5	μg/L	J	Low	Missed Holding Time / below RL
		Hexachlorocyclopentadiene	10	μg/L	UJ	Low	Missed Holding Time
		2,4,6-Trichlorophenol	10	μg/L	UJ	Low	Missed Holding Time
		2,4,5-Trichlorophenol	26	μg/L	UJ	Low	Missed Holding Time
		2-Chloronapthalene	10	μg/L	UJ	Low	Missed Holding Time
		2-Nitroaniline	26	μg/L	UJ	Low	Missed Holding Time
		Dimethylphthalate	10	μg/L	UJ	Low	Missed Holding Time
		Acenaphthylene	10	μg/L	UJ	Low	Missed Holding Time
		2,6-Dinitrotoluene	10	μg/L	IJ	Low	Holding Time Missed / CC > CL
		3-Nitroaniline	26	μg/L	UJ	Low	Missed Holding Time
		Acenaphthene	10	μg/L	UJ	Low	Missed Holding Time
		2,4-Dinitrophenol	26	μg/L	UJ	Low	Holding Time Missed / CC > CL / IC %difference > Cl
		4-Dinitrophenol	26	μg/L	UJ	Low	Missed Holding Time
		Dibenzofuran	10	μg/L	UJ	Low	Missed Holding Time
		2,4-Dinitrotoluene	10	μg/L	UJ	Low	Holding Time Missed / CC > CL
		Diethylphthalate	10	μg/L	UJ	Low	Missed Holding Time
		4-Chlorophenyl-phenylether	10	μg/L	UJ	Low	Missed Holding Time
		Fluorene	10	μg/L	UJ	Low	Missed Holding Time
		4-Nitroaniline	26	μg/L	UJ	Low	Missed Holding Time
		4,6-Dinitro-2-methylphenol	26	μg/L	UJ	Low	Missed Holding Time

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW45-09	N-nitrosodiphenylamine	10	μg/L	UJ	Low	Missed Holding Time
,	(SVOC)	4-Bromophenyl-phenylether	10	μg/L	UJ	Low	Missed Holding Time
	, ,	Hexachlorobenzene	10	μg/L	UI	Low	Missed Holding Time
		Pentachlorophenol	26	μg/L	UJ	Low	Missed Holding Time
		Phenanthrene	10	μg/L	UJ	Low	Missed Holding Time
		Anthracene	. 10	μg/L	·UJ	Low	Missed Holding Time
		Carbazole	10	μg/L	·UJ	Low	Missed Holding Time
		Di-n-butylphthalate	10	μg/L	UJ	Low	Missed Holding Time
		Fluoranthene	10	μg/L	UJ	Low	Missed Holding Time
		Pyrene	10	μg/L	UJ	Low	Missed Holding Time
		Butylbenzylphthalate	10	μg/L	UJ	Low	Missed Holding Time
		3,3-Dichlorobenzidine	10	μg/L	UJ	Low	Missed Holding Time
		Benzo (a) anthracene	10	μg/L	UJ	Low	Missed Holding Time
	•	Chrysene	10	μg/L	UJ	Low	Missed Holding Time
		bis (2-Ethylhexyl) phthalate	10	μg/L	UJ	Low	Missed Holding Time
		Di-n-octylphthalate	10	μg/L	UJ	Low	Missed Holding Time
		Benzo (b) fluoranthene	10	μg/L	UJ .	Low	Missed Holding Time
	•	Benzo (k) fluoranthene	10	μg/L	UJ	Low	Missed Holding Time
		Benzo (a) pyrene	10	μg/L	UJ -	Low	Missed Holding Time
		Ideno (1,2,3-cd) pyrene	10	μg/L	UJ	Low	Missed Holding Time
		Dibenzo (a,h) anthracene	10	μg/L	UJ	Low	Missed Holding Time
		Benzo (g,h,i) perylene	10	μg/L	UJ	Low	Missed Holding Time
	(Pesticide/PCB)	alpha-BHC	0.0032	μg/L	JР	NDT	>25% difference between two GC columns / below RL
	,	beta-BHC	0.0078	μg/L	·JP	NDT	>25% difference between two GC columns / below RL
945258	M4S-09	2-Butanone	100	μg/L	UJ	High	Continuing Calibration >CL
	(VOC)	4-Methyl-2-Pentanone	100	μg/L	UJ	High	Continuing Calibration >CL

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	M4S-09	2-Hexanone	100	μg/L	UJ -	High	Continuing Calibration >CL
` .	(VOC)	Acetone	26	μg/L	JВ	High	IC RSD > CL / blank contamination / below RL
		Methylene Chloride	19	μg/L	J	NDT	Detected below RL
	(SVOC)	2-Methylnaphthalene	11	μg/L	UJ	NDT	CC % difference > CL
		4-Nitroaniline	28	μg/L	UJ	NDT	CC % difference > CL
		Carbazole	11	μg/L	UJ	NDT	CC % difference > CL
		Fluoranthene	11	μg/L	UJ	NDT	CC % difference > CL
	(Pesticide/PCB)	alpha-BHC	0.0083	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		beta-BHC	0.016	μg/L	JPB	NDT	>25% diff. between two GC columns / blank contam. / below RL
		delta-BHC	0.0012	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		gamma-BHC	0.011	μg/L	J	NDT	Detected below RL
945259	M4S-99	2-Butanone	100	μg/L	UJ	High	Continuing Calibration >CL
	(VOC)	4-Methyl-2-Pentanone	100	μg/L	UJ	High	Continuing Calibration >CL
		2-Hexanone	100	μg/L	UJ	High	Continuing Calibration >CL
		Acetone	24	μg/L	JB	High	IC RSD > CL / blank contamination / below RL
-		Methylene Chloride	18	μg/L	J	NDT	Detected below RL
	(SVOC)	bis (2-chloroethyl) ether	95	μg/L	É	NDT	Exceeded calibration range
		2-Methylnaphthalene	10	μg/L	UJ	NDT	CC % difference > CL
		4-Nitroaniline	26	μg/L	UJ	NDT	CC % difference > CL
		Carbazole	10	μg/L	UJ	NDT .	CC % difference > CL
		Fluoranthene	10	μg/L	UJ	NDT	CC % difference > CL
	(Pesticide/PCB)	alpha-BHC	0.0090	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		beta-BHC	0.012	μg/L	JPB	NDT	>25% diff. between two GC columns / blank contam. / below RL

TABLE 1-1

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		· · · · · · · · · · · · · · · · · · ·	<u> </u>	· · · ·	11 01 15)		
Lab ID	Sample ID .	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	M4S-99	delta-BHC	0.0027	μg/L	JP	NDT	>25% difference between two GC columns / below RL
, ,	(Pesticide/PCB)	gamma-BHC	0.0084	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		4,4-DDD	0.0084	μg/L	JP	NDT	>25% difference between two GC columns / below RL
	·	alpha-Chlordane	0.0040	μg/L	JP	NDT	>25% difference between two GC columns / below RL
945259	M4S-99 DL	Pentachlorophenol	51	μg/L	UJ	High	Continuing Calibration >CL
	(SVOC)	2-Methylphenol	20	μg/L	UJ	High	Continuing Calibration >CL
	, ,	4-Methylphenol	20	μg/L	UJ	High	Continuing Calibration >CL
		Nitrobenzene	20	μg/L	UJ	High	Continuing Calibration >CL
		Hexachlorocyclopentadiene	20	μg/L	UJ	High	Continuing Calibration >CL
	,	2,4-Dinitrophenol	51	μg/L	UJ	High	Continuing Calibration >CL
		bis (2-chloroethyl) ether	91	μg/L	D	NDT	Diluted sample
, .945261	MW15-09	2-Butanone	10	μg/L	UJ	High	Continuing Calibration >CL
	(VOC)	4-Methyl-2-Pentanone	10	μg/L	UJ	High	Continuing Calibration >CL
		2-Hexanone	10	μg/L	UJ	High	Continuing Calibration >CL
i		Acetone	4	μg/L	J	High	IC RSD > CL / below RL
		Methylene Chloride	5	μg/L	J	NDT	Detected below RL
		Benzene	3	μg/L	J	NDT	Detected below RL
	(SVOC)	2-Methylnaphthalene	10	μg/L	UJ	NDT	CC % difference > CL
		4-Nitroaniline	26	μg/L	UJ .	NDT	CC % difference > CL
		Carbazole	10	μg/L	UJ	NDT	CC % difference > CL
		Fluoranthene	10	μg/L	UJ	NDT	CC % difference > CL
	(Pesticide/PCB)	beta-BHC	0.0081	μg/L	JPB	NDT	>25% diff. between two GC columns / blank contam. / below RL
	· .	delta-BHC	0.0016	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		gamma-BHC	0.0033	μg/L	JP	NDT	>25% difference between two GC columns / below RL

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW15-09	Heptachlor	0.0074	μg/L	JP	NDT	>25% difference between two GC columns / below RL
` ,	(Pesticide/PCB)	Aldrin	0.0021	μg/L	JP	NDT	>25% difference between two GC columns / below RL
945684	MW14-09	Acetone	10	μg/L	JB	High	IC RSD > CL / blank contamination / below RL
745004	(VOC)	Methylene Chloride	3	μg/L	JВ	High	blank contamination / Detected below RL
	(100)	Chloromethane	10	μg/L	UJ	High	CC %difference > CL
	(SVOC)	Nitrobenzene	10	μg/L	UJ	High	Continuing Calibration >CL
		2,2-oxybis (1-Chloropropane)	10	μg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	26	μg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	26	μg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	μg/L	UJ	High	Continuing Calibration >CL
	(Pesticide/PCB)	Heptachlor	0.0022	μg/L	JP	NDT	>25% difference between two GC columns / below RL
945685	MW09R-09	Acetone	8	μg/L	JB	High	IC RSD > CL / blank contamination / below RL
	(VOC)	Methylene Chloride	9	μg/L	JB	High	blank contamination / Detected below RL
		Chloromethane	10	μg/L	UJ	High	CC %difference > CL
	(SVOC)	Nitrobenzene	10	μg/L	UJ	High	Continuing Calibration >CL
		2,2-oxybis (1-Chloropropane)	10	μg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	25	μg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	25	μg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	μg/L	UJ	High	Continuing Calibration >CL
	(Pesticide/PCB)	delta-BHC	0.0053	μg/L	JP	NDT	>25% difference between two GC columns / below RL
	•	alpha-Chlordane	0.010	μg/L	JP	NDT	>25% difference between two GC columns / below RL

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
945685	MW09R-09 DL	Acetone	15	μg/L	DJ	High	IC RSD > CL / Diluted / below RL
	(VOC)	Chloromethane	56	μg/L	UJ	High	CC %difference > CL
945686	MW06-99	Acetone	28	μg/L	JB	High	IC RSD > CL / blank contamination
	(VOC)	Methylene Chloride	3	μg/L	JB	High	Detected below RL / blank contamination
	,	Chloromethane	25	μg/L	UJ	High	CC %difference > CL
(cont.)	MW06-99	Nitrobenzene	10	μg/L	UJ	High	Continuing Calibration >CL
	(SVOC)	2,2-oxybis (1-Chloropropane)	. 10	μg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	26	μg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	26	μg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	μg/L	UJ	High	Continuing Calibration >CL
		bis (2-ethylhexyl) phthalate	5	μg/L	JB	NDT	Detected below RL / blank contamination
	(Pesticide/PCB)	alpha-BHC	0.012	μg/L	J	NDT	Detected below RL
		beta-BHC	0.064	μg/L	P	NDT	>25% difference between two GC columns
		delta-BHC	0.0012	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		gamma-BHC	0.014	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		Heptachlor	0.015	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		Aldrin	0.0072	μg/L	. Jb	NDT	>25% difference between two GC columns / below RL
		alpha-Chlordane	0.0085	μg/L	J	NDT	Detected below RL
		gamma-Chlordane	0.0019	μg/L	JP	NDT	>25% difference between two GC columns / below RL
945687	MW06-09	Acetone	80	μg/L	JB	High	IC RSD > CL / blank contamination
	(VOC)	2-Butanone	2	μg/L	J	NDT	Detected below RL
		Toluene	1	μg/L	J	NDT	Detected below RL
		1,2-Dichloroethene	1	μg/L	J	NDT	Detected below RL
	•	Chloromethane	10	μg/L	UJ	High	CC %difference > CL

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW06-09	Nitrobenzene	10	μg/L	UJ	High	Continuing Calibration >CL
	(SVOC)	2,2-oxybis (1-Chloropropane)	10	μg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	26	μg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	26	μg/L	UJ	High	Continuing Calibration >CL
	•	3,3-Dichlorobenzidine	10	μg/L	UJ	High	Continuing Calibration >CL
		Isophorne	3	μg/L	J	NDT	Detected below RL
	(Pesticide/PCB)	alpha-BHC	0.0095	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		beta-BHC	0.36	μg/L	P	NDT	>25% difference between two GC columns
		delta-BHC	0.0040	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		gamma-BHC	0.0066	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		Heptachlor	0.0043	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		Dieldrin	0.0069	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		4,4-DDE	0.0012	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		Endrin	0.021	μg/L	JP	NDT	>25% difference between two GC columns / below RL
		alpha-Chlordane	0.0068	μg/L	JP	NDT	>25% difference between two GC columns / below RL
945705	MW10C-09	Acetone	990	μg/L	JB	High	IC RSD > CL / blank contamination / below RL
	(VOC)	Methylene Chloride	130	μg/L	. JB	High	Detected below RL / blank contamination
		Chloromethane	1000	μg/L	UJ	High	CC %difference > CL
	(SVOC)	Nitrobenzene	10.	μg/L	UJ	High	Continuing Calibration >CL
		2,2-oxybis (1-Chloropropane)	10	μg/L	UJ	High	Continuing Calibration >CL
		4-Nitrophenol	26	μg/L	UJ	High	Continuing Calibration >CL
		Pentachlorophenol	26	μg/L	UJ	High	Continuing Calibration >CL
		3,3-Dichlorobenzidine	10	μg/L	UJ	High	Continuing Calibration >CL
		bis (2-Ethylhexyl) phthalate	2	μg/L	JB	High	Surrogate %R > CL / blank contamination / below RL



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW10C-09 (Pesticide/PCB)	beta-BHC delta-BHC gamma-BHC	0.017 0.0023 0.0012	μg/L μg/L μg/L	J JP JP	NDT NDT NDT	Detected below RL >25% difference between two GC columns / below RL >25% difference between two GC columns / below RL

B - Blank contamination

CC - Continuing calibration

CL - Control limit

D - Diluted

HT - Holding time

IC - Initial calibration

J - Estimated value.

μg/L - micrograms/Liter

NDT - Not Determined

P - indicates that the percent difference between the two GP columns is greater than 25%.

R - Recovery

RL - Reporting limit

RSD - Relative standard deviation

U - The associated value is at or below MDL.



### TABLE 1-2

## SUMMARY OF INORGANIC DATA QUALIFICATIONS SDG 003 AMERICAN CHEMICAL SERVICE, INC. GRIFFITH, INDIANA

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
944694	MW50-09	Antimony	2.3	μg/L	J	NDT	Detected below RL
		Arsenie	2.9	μg/L	J	NDT	Detected below RL
		Beryllium	0.41	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	0.71	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	5.7	μg/L	J	NDT	Detected below RL
		Copper	12.6	μg/L	J	NDT	Detected below RL
		Mercury	1.1	μg/L	J	Low	Missed Holding Time
		Potassium	9530	μg/L	J	High	Scrial Dilution %D > CL
		Vanadium	8.3	μg/L	J	NDT	Detected below RL
		Zinc	19.1	μg/L	J	High	Lab duplicate RPD > CL / below RL
944711	MW19-09	Aluminum	64.6	μg/L	J	NDT	Detected below RL
		Arsenic	7.7	μg/L	J	NDT	Detected below RL
		Beryllium	0.25	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Chromium	3.6	μg/L	J	NDT	Detected below RL
		· Cobalt	1.4	μg/L	J	NDT	Detected below RL
		Copper	2.3	μg/L	J	NDT	Detected below RL
		Cyanide	5.1	μg/L	J	NDT	Detected below RL
		Mercury	0.05	μg/L	UJ	Low	Missed Holding Time
		Nickel	16.2	μg/L	J	NDT	Detected below RL
	•	Potassium	92400	μg/L	J	High	Serial Dilution %D > CL
		Vanadium	0.73	μg/L	J	NDT	Detected below RL
944740	MW45-09	Antimony	2.1	μg/L	J	NDT	Detected below RL
		Barium	84.2	μg/L	J	NDT	Detected below RL
		Beryllium	0.26	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	3.0	μg/L	J	NDT	Detected below RL
		Copper	5.0	μg/L	J	NDT	Detected below RL



(Page 2 of 5)

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW45-09	Lead	. 1.8	μg/L	· J	NDT	Detected below RL
		Mercury	0.05	μg/L	UJ	Low	Missed Holding Time
		Potassium	5430	μg/L	J	High	Serial Dilution %D > CL
	,	Vanadium	1.1	μg/L	J	NDT	Detected below RL
	·	Zinc	5.6	μg/L	J .	High	Lab duplicate RPD > CL / below RL
945258	M4S-09	Aluminum	83.9	μg/L	J	NDT	Detected below RL
		Antimony	3.2	μg/L	J	NDT	Detected below RL
	٠.	Arsenic	2.7	μg/L	J	NDT	Detected below RL
		Beryllium	0.44	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	1.8	μg/L	Ĵ	High	Lab duplicate RPD > CL / below RL
		Chromium	6.2	μg/L	J	NDT	Detected below RL
		Cobalt	6.0	μg/L	<sub>.</sub> J	NDT	Detected below RL
	•	Mercury	0.05	μg/L	UJ	Low	Missed Holding Time
	•	Nickel	11.5	μg/L	J	NDT	Detected below RL
	•	Potassium	18800	μg/L	J	High	Serial Dilution %D > CL
		Vanadium	2.9	μg/L	J	NDT	Detected below RL
		Zinc	2.5	μg/L	J	High	Lab duplicate RPD > CL / below RL
945259	M4S-99	Aluminum	53.7	μg/L	J	NDT	Detected below RL
	•	Antimony	2.8	μg/L	J	NDT	Detected below RL
		Arsenic	4.0	μg/L	J	NDT	Detected below RL
	•	Beryllium	0.32	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	2.6	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Chromium	3.7	μg/L	J	NDT	Detected below RL
		Cobalt	7.2	μg/L	. <b>J</b>	NDT	Detected below RL
		Mercury	0.05	μg/L	UJ	Low	Missed Holding Time
	•	Nickel ·	11.3	μg/L	J	NDT	Detected below RL



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	M4S-99	Potassium	19500	μg/L	J	High	Serial Dilution %D > CL
, ,		Silver	0.38	μg/L	J	NDT	Detected below RL
		Vanadium	4.0	μg/L	J	NDT	Detected below RL
		Zinc	2.7	μg/L	J	High	Lab duplicate RPD > CL / below RL
945261	MW15-09	Beryllium	0.47	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Chromium	4.1	μg/L	J	NDT	Detected below RL
		Cobalt	5.5	μg/L	1	NDT	Detected below RL
		Copper	3.0	μg/L	J	NDT	Detected below RL
		Mercury	0.05	μg/L	UJ	Low	Missed Holding Time
	·	Nickel	19.8	μg/L	J	NDT	Detected below RL
		Potassium	124000	μg/L	J	High	Serial Dilution %D > CL
		Vanadium	1.9	μg/L	J	NDT	Detected below RL
		Zinc	2.1	μg/L	1.	High	Lab duplicate RPD > CL / below RL
945684	MW14-09	Antimony	2.9	μg/L	J	NDT	Detected below RL
		Barium	119	μg/L	J	NDT	Detected below RL
		Beryllium	0.93	μg/L	l	High	Lab duplicate RPD > CL / below RL
	•	Cobalt	24.7	μg/L	J	NDT	Detected below RL
		Mercury	0.05	μg/L	ប្ប	Ļow	Missed Holding Time
		Potassium	5050	μg/L	J	High	Serial Dilution %D > CL
	•	Selenium	6.6	μg/L	J	High	Spike Sample %R > CL
	• ,	Zinc	44.5	μg/L	J	High	Lab duplicate RPD > CL
945685	MW09R-09	Arsenic	2.0	μg/L	J	NDT	Detected below RL
		Beryllium	0.36	μg/L -	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	0.92	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	3.3	μg/L	J	NDT	Detected below RL



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW09R-09	Copper	5.7	 μg/L	J	NDT	Detected below RL
		Mercury	0.05	μg/L	UJ	Low	Missed Holding Time
		Nickel	18.2	μg/L	· J	NDT	Detected below RL
	•	Potassium	7790	μg/L	J	High	Serial Dilution %D > CL
		Vanadium	2.5	μg/L	J	NDT	Detected below RL
		Zinc	20.6	μg/L	J	High	Lab duplicate RPD > CL
945686	MW06-99	Aluminum	85.3	μg/L	J	NDT	Detected below RL
	•	Antimony	2.5	μg/L	J	NDT	Detected below RL
		Beryllium	0.38	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Cadmium	2.2	μg/L	J	High	Lab duplicate RPD > CL / below RL
•		Cobalt	2.0	μg/L	J .	NDT	Detected below RL
		Copper	3.8	μg/L	J	NDT	Detected below RL
		Cyanide	5.7	μg/L	J	NDT	Detected below RL
		Mercury	0.05	μg/L	UJ	Low	Missed Holding Time
		Nickel	21.6	μg/L	J	NDT	Detected below RL
		Potassium	16400	μg/L	J	High	Serial Dilution %D > CL
		Silver .	0.40	μg/L	J	NDT	Detected below RL
		Zinc	4.4	μg/L	J	High	Lab duplicate RPD > CL / below RL
945687	MW06-09	Aluminum	41.3	μg/L	J	NDT	Detected below RL
		Antimony	3.2	μg/L	. <b>J</b>	NDT	Detected below RL
		Beryllium	0.25	μg/L	J	High	Lab duplicate RPD > CL / below RL
	·	Cadmium	2.1	μg/L	J	High	Lab duplicate RPD > CL / below RL
	•	Chromium	8.1	μg/L	J	NDT	Detected below RL
		Cobalt	2.4	μg/L	J	NDT	Detected below RL
	.*	Copper	3.7	μg/L	J	NDT	Detected below RL
		Mercury	0.05	μg/L	UJ	Low	Missed Holding Time

TABLE 1-2

(Page 5 of 5)

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW06-09	Nickel	20.2	μg/L	J	NDT	Detected below RL
, ,		Potassium	16500	μg/L	J	High	Serial Dilution %D > CL
		Vanadium	0.68	μg/L	J	NDT	Detected below RL
		Zinc	2.3	μg/L	J	High	Lab duplicate RPD > CL / below RL
945705	MW10C-09	Antimony	2.1	μg/L	J	NDT	Detected below RL
	•	Beryllium	0.33	μg/L	J	High	Lab duplicate RPD > CL / below RL
		Cobalt	2.7	μg/L	J	NDT	Detected below RL
	•	Copper	3.6	μg/Ĺ	J	NDT	Detected below RL
		Cyanide	7.4	μg/L	J	NDT	Detected below RL
		Mercury	0.05	μg/L	UJ	Low	Missed Holding Time
		Nickel	13.4	μg/L	J	NDT	Detected below RL
		Potassium	3630	μg/L	J	High	Serial Dilution %D > CL / below RL
		Vanadium	2.0	μg/L	J	NDT	Detected below RL
		Zinc	5.1	μg/L	J	High	Lab duplicate RPD > CL / below RL

CL - Control limit

D - Difference

J - Estimated value

μg/L - micrograms/Liter

RL - Reporting limit

RPD - Relative percent difference

U - The associated value is at or below IDL.

### TABLE 1-3

# COMPARISON OF ORIGINAL AND RE-ANALYSIS SAMPLES FOR SVOCs SDG 003 AMERICAN CHEMICAL SERVICE, INC GRIFFITH, INDIANA

### (Page 1 of 1)

Analyte	ACSGWMW19-09	ACSGWMW19-09RE
bis (2-Chloroethyl) ether	23	23
2,2-oxybis (1-Chloropropane)	2 J	4 J
Isophorone	6 J	10 U
bis (2-Ethylhexyl) phthalate	16	1 J
All other analytes	U	U
		•

Analyte	ACSGWMW45-09	ACSGWMW45-09RE
Phenol	5 J	31
bis (2-Chloroethyl) ether	5 J	. 4 Ј
1,4-Dichlorobenzene	2 J	2 J
1,2-Dichlorobenzene	4 J	4 J
2,2-oxybis (1-Chloropropane)	<b>7</b> J	7 J
Isophorone	2 J	10 U
Napthalene	97 E	11
2-Methylnapthalene	2 J	0.5 J
All other analytes	U	U .

Analyte	ACSGWMW50-09	ACSGWMW50-09RE
All analytes	U	U

E - result exceeded the calibration range

J - result is estimated

RE - re-analysis

U - result not detected

### MEMORANDUM



To:

Trisha Woolslayer

Date:

August 20, 1999

From:

Anne Koob, MW

Job No.:

1252042.281601

Subject:

Data Validation for American

SDG:

005

Chemical Service (ACS). Griffith, Indiana.

June 1999

### INTRODUCTION

The following text is based on the validation of water samples collected at American Chemical Service, Inc. in June of 1999.

Fourteen water samples and six field quality assurance samples were analyzed by CompuChem Laboratories, Cary, North Carolina for the following parameters:

- VOA's by CLP OLM 3.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, M1S-09, M4D-09, MW07-09, MW11-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW46-09, MW47-09, MW51-09, TB03-09, and TB04-09)
- SVOA's by CLP OLM 3.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW46-09, MW47-09, and MW51-09)
- Pesticides/PCB's by CLP OLM 3.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW46-09, MW47-09, and MW51-09)
- Inorganics by CLP ILM04.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, MW07-09, MW11-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW46-09, MW47-09, MW51-09, M1S-09, and M4D-09)
- Cyanide by CLP ILM04.0 (samples FB02-09, FB03-09, FB04-09, FB05-09, MW07-09, MW11-09, MW23-09, MW24-09, MW29-09, MW30-09, MW33-09, MW37-09, MW43-09, MW46-09, MW47-09, MW51-09, M1S-09, and M4D-09)

Data validation was conducted in accordance with procedures specified in *Pre-Design Activities Quality Assurance Project Plan (MW, 1995), National Functional Guidelines for Organic Data* 

Review (USEPA, 1994a), and National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).

The following field quality control samples were collected during the June 1999 sampling round:

- Four field blanks: FB02-09, FB03-09, FB04-09, FB05-09; and
- Two trip blanks: TB03-09, and TB04-09.

This memorandum contains a narrative summarizing the data quality objectives specified in the work plan, and provides a table of qualified data (Table 1-1 and 1-2) and supporting validation documentation (Attachment A).

#### SUMMARY

This section describes the quality control parameters reviewed during validation, summarizes the data quality objectives as a result of the validation and provides a summary of the deficiencies and qualification applied. The following paragraphs describe deficiencies that were identified which resulted in qualification of the sample results. Each analysis is separated into sections for clarity.

### **Volatile Organic Componds**

<u>Major Deficiencies</u>: The following paragraphs describe the major deficiencies identified during the validation process.

### Holding Time

• One samples for this analysis exceeded the holding time requirement of 14 days by 2.5 hours. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias. The lab narrative indicates that sample M1S-09 arrived at a pH of 3, which is greater than the preservation criteria of pH 2. Holding time criteria for non-aromatic volatile compounds is fourteen days, regardless of pH, provided that the temperature has been maintained at 4±2° C. Sample temperature was properly maintained and no data were qualified due to the pH nonconformance.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

#### Initial Calibration

• The initial calibration (run on 6/20/99 at 1249) %RSD for acetone (51.5 percent) was above the control limit of 30 percent. All positive results were qualified as an estimate "J" for acetone.

### Continuing Calibration

• The continuing calibration (run on 6/27/99 at 1120) for acetone (-30.3 percent) had a percent difference that exceeded the control limit of ±25 percent. All positive and nondetect results were qualified as estimated with a low bias.

### Surrogate Compounds

• The 1,2-Dichloroethane surrogate in sample FB03-09 was recovered at 124%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.

Contaminants were detected below the CRDL in some blanks and the associated sample results were flagged "B", by the laboratory, to indicate the possibility of blank contamination. Because most detections in blanks were below reporting limits, blank contamination is not expected to affect data usability across the board. Samples with associated blank contamination (above the reporting limit) are noted in the table of qualified data.

### **Semi-Volatile Organic Compounds**

Major Deficiencies: There were no major deficiencies identified during the validation process.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

#### Continuing Calibration

 A continuing calibration (run on 6/22/99 at 0921) had a percent difference for Nitrobenzene (34.1 percent/high bias) and Pentachlorophenol (38.7 percent/low bias) that exceeded the control limit of 25 percent. All affected samples were ND for pentachlorophenol; thus the practical quantitation limit (PQL) was qualified as estimated "UJ". No qualification was required for Nitrobenzene because the associated samples were ND and the CCV demonstrated a high bias.

#### Surrogate Compounds

- The Nitrobenzene-d5 surrogate in sample MW24-09 was recovered at 120%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The Nitrobenzene-d5 surrogate in sample FB05-09 was recovered at 120%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The Nitrobenzene-d5 surrogate in sample FB04-09 was recovered at 130%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The Nitrobenzene-d5 surrogate in sample FB02-09 was recovered at 123%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The 2,4,6-Tribromophenol surrogate in sample MW24-09 was recovered at 131%, which is above the control limit of 114%. All positive results were qualified as estimated "J" with a high bias.
- The 2-Fluorobiphenyl surrogate in sample MW43-09 was recovered at 32%, which is below the control limit of 35%. All positive results were qualified as estimated "J", with a low bias. For all ND results, the PQL was qualified as estimated "UJ" with a low bias.
- The 2-Chlorophenol-d4 surrogate in sample MW43-09 was recovered at 32%, which
  is below the control limit of 33%. Though this surrogate is an advisory surrogate, it is
  required to pass within control limits. All positive results were qualified as estimated

"J", with a low bias. For all ND results, the PQL was qualified as estimated "UJ" with a low bias.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

- The MS/MSD recovery for 4-Nitrophenol in sample MW47-09 was 97%/94%, which is above the upper control limit of 80%. No data were qualified, as all results for this compound were non-detect.
- The MSD recovery for 4-Chloro-3-methylphenol in sample MW47-09 was 99%, which is above the upper control limit of 97%. No data were qualified, as all results for this compound were non-detect.
- The MS/MSD RPD for 1,4-Dichlorobenzene in sample MW47-09 was 44, which is above the upper control limit of 28%. All results were qualified as estimated "J".

Contaminants were detected below the CRDL in some blanks and the associated sample results were flagged "B", by the laboratory, to indicate the possibility of blank contamination. Because all detections in blanks were below reporting limits, blank contamination is not expected to affect data usability.

### Pesticides / PCBs

Major Deficiencies: There were no major deficiencies identified during the validation process.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

- The MS/MSD RPD for gamma-BHC(lindane) in sample MW47-09 was 34, which is above the upper control limit of 15%. All results were qualified as estimated "J".
- The MS/MSD RPD for Heptachlor in sample MW47-09 was 32, which is above the upper control limit of 20%. All results were qualified as estimated "J".
- The MS/MSD RPD for Aldrin in sample MW47-09 was 30, which is above the upper control limit of 22%. All results were qualified as estimated "J".
- The MS/MSD RPD for Dieldrin in sample MW47-09 was 25, which is above the upper control limit of 18%. All results were qualified as estimated "J".
- The MS/MSD RPD for Endrin in sample MW47-09 was 29, which is above the upper control limit of 21%. All results were qualified as estimated "J".

Contaminants were detected below the CRDL in some blanks and the associated sample results were flagged "B", by the laboratory, to indicate the possibility of blank contamination. Because all detections in blanks were below reporting limits, blank contamination is not expected to affect data usability.

### **Inorganics / Cyanide**

Major Deficiencies: The following paragraphs describe the major deficiencies identified during the validation process.

#### Holding Time

- All samples analyzed for mercury exceeded the holding time requirement of 28 days by twelve days. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.
- All samples analyzed for cyanide exceeded the holding time requirement of 14 days by 26 days. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

#### Continuing Calibration Blanks

• Several continuing calibration blanks (CCBs) had negative detections of calcium, sodium, and zinc indicating a possible negative bias in associated sample results. All associated positive results for those analytes were qualified as estimated "J", with a low bias, unless the bias was insignificant compared to the sample concentration. In the case of ND results, the PQL was qualified as estimated "UJ", with a low bias.

Several samples contained detected concentrations of target analytes at concentrations between the instrument detection limit (IDL) and the contract required detection limit (CRDL). These were qualified as "B" by the laboratory, but during the validation process these qualifications were changed to a "J" flag which indicates an estimate. Table 1-2 summarizes the affected samples and analytes.

### DATA QUALITY OBJECTIVES

The following is a summary of the data quality objectives that were evaluated during the data validation process.

Reporting Limits: Reporting limits were met for all analyses with the following exception.

- For VOCs: Reporting limits were met without exception. No dilutions were necessary.
- For SVOCs: Reporting limits were met without exception. No dilutions were necessary.
- For Pesticides: Reporting limits were met without exception. No dilutions were necessary.
- For Metals and Cyanide: Reporting limits were met without exception. No dilutions were necessary.

#### Accuracy

<u>Laboratory Control Sample:</u> Validation of the LCS was not performed for the organic analyses because the data was not provided by the laboratory and is not required per OLM 3.0. The LCS for the inorganic analyses were within control limits and analyzed at the correct frequency.

<u>Surrogates</u>: The surrogate results were within laboratory specified limits with the exceptions noted previously.

<u>Matrix Spike / Matrix Spike Duplicate:</u> The MS/MSD results were within laboratory specified limits with the exceptions noted previously.

#### Precision

Field Duplicates: No field duplicates were present in this SDG.

<u>Laboratory Duplicate Sample:</u> No laboratory duplicate analyses were performed in this SDG.

The overall results were acceptable, indicating that sampling and analytical precision objectives were met for the sampling event.

#### **Completeness**

The data package was complete for the requested analyses. No results were considered unusable. The completeness was 100 percent, which meets the completeness objective of 95 percent.

#### Representativeness:

Trip blanks TB03-09 and TB04-09 had no target analytes detected above the reporting limit for all analyses, indicating that the representativeness objectives for the sampling event were met.

Field blanks FB03-09 and FB05-09 had acetone and methylene chloride detections above the reporting limit. Associated positive results were qualified as contaminated "B". Samples MW37-09, MW23-09, and TB04-09 were affected.

### \*Comparability:

All data were reported in similar units to facilitate comparison of results within the data packages. Samples arrived at the laboratory at 4°C, which is within the limits of 2-6°C. It should be noted that several samples were analyzed by EPA method CLP-Inorganics OLM 4.0 were analyzed after the recommended holding time. Because of the holding time exceedence, comparability might be affected.

As a result of this evaluation, all data within this SDG for wells at American Chemical Service are of known and acceptable quality in relation to the DQOs of this project. Although significant qualifications were required due to holding time violations, the data are considered usable as qualified for the intended purposes. Table 1-1 and 1-2 summarize the validation and laboratory qualifications for this sampling event.

#### REFERENCES

Pre-Design Activities Quality Assurance Project Plan, American Chemical Service, Inc. NPL Site, Griffith Indiana (MW, 1995).

National Functional Guidelines for Organic Data Review (USEPA, 1994a). National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).

		-						
ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
		1.						
SDG 5	FB03-09RE	VOCs	all other volatiles	all	ug/L	1/11.1	low	run 2.5 hours past hold time
SDG 5	FB03-09RE	VOCs.	Methylene Chloride	44	ug/L		low	run 2.5 hours past hold time
SDG 5	FB03-09	VOCs	all other volatiles	all	ug/L		high	DCE surrogate out high at 124%.
SDG 5	FB03-09	VOCs	Methylene Chloride	49	ug/L ug/L		high	DCE surrogate out high at 124%
SDG 5	FB03-09	VOCs	Acetone	10	ug/L ug/L		low	
			Acetone					Continuing calibration %D is -30.3%, ICAL %RSD is 51.5
SDG 5	TB04-09	VOCs	Acetone	<10	ug/L	UJ	low	Continuing calibration %D is -30.3%
SDG 5	MW37-09	VOCs	Acetone	5	ug/L	J	low	Continuing calibration %D is -30.3%, ICAL %RSD is 51.5
SDG 5	MW23-09	VOCs	Acetone	7	ug/L	J	high	
SDG 5	FB05-09	VOCs	Acetone	23	ug/L	.1	high	ICAL %RSD is 51.5
SDG 5	MW43-09	SVOCs	all semivolatiles	ND	ug/L		low	
SDG 5	MW43-09	SVOCs	all semivolatiles	ND	ug/L	ŲJ	low	2-Chlorophenol-d4 out at 32% (33-110)
CDC E	MM47.00	CVOC=	4 Nitrophonol	-10	/1	111	hiah	advisory
SDG 5 SDG 5	MW47-09	SVOCs SVOCs	4-Nitrophenol	<10	ug/L		high	MS/MSD recovery 97%/94%, (10-80)
SDG 5	MW47-09		4-Chloro-3-methylphenol	<10	ug/L		high	MSD recovery 99% (23-97)
SDG 5	MW47-09	SVOCs	1,4-Dichlorobenzene	<10	ug/L		NDT	MS/MSD RPD is 44, limit is 28
SDG 5	FB03-09	SVOCs	Pentachlorophenol	<25 -05	ug/L		low	Continuing calibration %RSD -38.7%
	MW23-09	SVOCs	Pentachlorophenol	<25	ug/L		low	Continuing calibration %RSD -38.7%
SDG 5	MW37-09	SVOCs	Pentachlorophenol	<26	ug/L		low	Continuing calibration %RSD -38.7%
SDG 5	MW24-09	SVOCs	Pentachlorophenol	<25	ug/L	UJ	low	Continuing calibration %RSD -38.7%,
		·						Nitrobenzene-d5 surrogate out at 120% (35 114), 2,4,6-Tribromophenol surrogate out
					•			at 131% (10-123)
SDG 5	FB05-09	SVOCs	Pentachlorophenol	<27	ug/L	UJ	low	Continuing calibration %RSD -38.7%,
								Nitrobenzene-d5 surrogate out at 120% (35-114)
SDG 5	MW29-09	SVOCs	Pentachlorophenol	<25	ug/L	UJ	low	Continuing calibration %RSD -38.7%
SDG 5	FB04-09	SVOCs	Pentachlorophenol	<25	ug/L		low	Continuing calibration %RSD -38.7%,
					- J			Nitrobenzene-o5 surrogate out at 130% (35
SDG 5	MW47-09	Pesticides	gamma-BHC (Lindane)	<.049	ug/L	UJ	NDT	MS/MSD RPD is 34, limit is 15

ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
SDG 5	MW47-09	Pesticides	Heptachlor	<.049	ug/L	UJ	NDT	MS/MSD RPD is 32, limit is 20
SDG 5	MW47-09	Pesticides	Aldrin	<.049	ug/L		NDT	MS/MSD RPD is 30, limit is 22
SDG 5	MW47-09	Pesticides	Dieldrin	<0.98	ug/L		NDT	MS/MSD RPD is 25, limit is 18
SDG 5	MW47-09	Pesticides	Endrin	< 0.98	ug/L		NDT	MS/MSD RPD is 29, limit is 21
SDG5	FB02-09	VOCs	Methylene Chloride	8	ug/L		NDT	Reported between MDL and CRDL
		VOCs	Acetone	7	ug/L		high	Reported between MDL and CRDL, ICAL %RSD is 51.5
		VOCs	Benzene	4	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	Toluene	3	ug/L		NDT	Reported between MDL and CRDL
		VOCs	1,2-Dichloroethene	2	ug/L		NDT	Reported between MDL and CRDL
	FB03-09	VOCs	Chloroform	1	ug/L		NDT	Reported between MDL and CRDL
		VOCs	2-Butanone	2	ug/L		NDT	Reported between MDL and CRDL
		VOCs	4-Methyl-2-pentanone	1	ug/L		NDT	Reported between MDL and CRDL
	FB03-09RE	VOCs	Acetone	10	ug/L		NDT	Reported between MDL and CRDL
		VOCs	Chloroform	· 1	ug/L		NDT	Reported between MDL and CRDL
		VOCs	2-Butanone	2	ug/L		NDT	Reported between MDL and CRDL
		VOCs	4-Methyl-2-pentanone	1	ug/L		NDT	Reported between MDL and CRDL
	FB04-09	VOCs	Methylene Chloride	2	ug/L		NDT	Reported between MDL and CRDL
		VOCs	Acetone	3	ug/L		high	Reported between MDL and CRDL, ICAL %RSD is 51.5
	FB05-09	VOCs	Chloroform	1	ug/L	J	NDT	Reported between MDL and CRDL
	•	VOCs	2-Butanone	3	ug/L	J	NDT	Reported between MDL and CRDL
		VOCs	4-Methyl-2-pentanone	2	ug/L		NDT	Reported between MDL and CRDL
•		VOCs	Toluene	2	ug/L	J	NDT	Reported between MDL and CRDL
	M1S-09	VOCs	Benzene	2	ug/L		NDT	Reported between MDL and CRDL
	MW23-09	VOCs	Methylene Chloride	4	ug/L	JB	high	Reported between MDL and CRDL, Blank contamination from FB03-09.
		VOCs	Acetone	7	ug/L	J	NDT	Reported between MDL and CRDL
	MW24-09	VOCs	Methylene Chloride	4	ug/L	JB	high	Reported between MDL and CRDL, Blank contamination from FB05-09.
	•	VOCs	Acetone	4	ug/L	JB	high	Reported between MDL and CRDL, ICAL
		÷	•					%RSD is 51.5, Blank contamination from FB05-09.
	MW29-09	VOCs	Methylene Chloride	2	ug/L	J	NDT	Reported between MDL and CRDL
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Methylene Chloride		. •					•	·
VOCs			-					
VOCs							-	·
MW30-09	ID	Field ID	Analysis	Analyte	result	unit fla	ıg bias	comment
MW30-09	<del></del>	· · · · · · · · · · · · · · · · · · ·				··		
VOCs Acetone 3 ug/L J high Reported between MDL and CRDL, ICAL %RSD is 51.5  MW33-09 VOCs Methylene Chloride 9 ug/L J NDT Reported between MDL and CRDL, ICAL %RSD is 51.5  VOCs 2-Butanone 1 ug/L JB NDT Reported between MDL and CRDL, ICAL %RSD is 51.5  Reported between MDL and CRDL, ICAL %RSD is 51.5  Reported between MDL and CRDL, ICAL %RSD is 51.5  Reported between MDL and CRDL, Blank contamination from FB03-09.  Reported between MDL and CRDL, Blank contamination from FB03-09.  Reported between MDL and CRDL, ICAL %RSD is 51.5  Reported between MDL and CRDL, ICAL %RSD is 51.5  Reported between MDL and CRDL, ICAL %RSD is 51.5  Reported between MDL and CRDL, ICAL %RSD is 51.5  MW46-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL MW51-09 VOCs Methylene Chloride 8 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 8 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL WOCs Acetone 2 ug/L J NDT Reported between MDL and CRDL NGSD is 51.5  TB04-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL NGSD is 51.5  Reported between MDL and CRDL, ICAL %RSD is 51.5  Reported between MDL and CRDL, ICAL %RSD is 51.5  Reported between MDL and CRDL, ICAL %RSD is 51.5  Reported between MDL and CRDL, ICAL %RSD is 51.5  Reported between MDL and CRDL, ICAL %RSD is 51.5  Reported between MDL and CRDL, ICAL %RSD is 51.5  Reported between MDL and CRDL, ICAL %RSD is 51.5  Reported between MDL and CRDL, ICAL %RSD is 51.5  Reported between MDL and CRDL, ICAL %RSD is 51.5  Reported between MDL and CRDL, ICAL %RSD is 51.5  Reported between MDL and CRDL, ICAL %RSD is 51.5  Reported between MDL and CRDL %RSD is 51.5  Reported between MDL and CRDL %RSD is 51.5  Reported between MDL and CRDL %RSD is 51.5  Reported between MDL and CRDL %RSD is 51.5  Reported between MDL and CRDL %RSD is 51.5  Reported between MDL and CRDL %RSD is 51.5  Reported betwe	,		VOCs	Acetone	2	ug/L 、	l high	· · · · · · · · · · · · · · · · · · ·
MW33-09		MW30-09	VOCs	Methylene Chloride	4	ug/L 、	I NDT	Reported between MDL and CRDL
VOCs Acetone 8 ug/L JB high Reported between MDL and CRDL, ICAL %RSD is 51.5  VOCs 2-Butanone 1 ug/L JB high Reported between MDL and CRDL MW37-09 VOCs Methylene Chloride 4 ug/L JB high Reported between MDL and CRDL, Blank contamination from FB03-09.  VOCs Acetone 5 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 4 ug/L J high Reported between MDL and CRDL VOCs Acetone 4 ug/L J high Reported between MDL and CRDL WRSD is 51.5  MW46-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL MW47-09 VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL MW51-09 VOCs Methylene Chloride 8 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL TB03-09 SVOCs Dis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL TB03-09 SVOCs Dis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL TB03-09 SVOCs Dis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL TB03-09 SVOCs Dis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL			VOCs	Acetone	3	ug/L	l high	· · · · · · · · · · · · · · · · · · ·
VOCs		MW33-09	VOCs	Methylene Chloride	9	ug/L 、	TON I	Reported between MDL and CRDL
MW37-09 VOCs Methylene Chloride 5 ug/L JB high contamination from FB03-09.  VOCs Acetone 5 ug/L J NDT Reported between MDL and CRDL, Blank contamination from FB03-09.  MW43-09 VOCs Methylene Chloride 2 ug/L J high Reported between MDL and CRDL, ICAL %RSD is 51.5  MW46-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL, ICAL MW47-09 VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL AMD51-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL NOCs Acetone 2 ug/L J high Reported between MDL and CRDL RDL WOCs Acetone 2 ug/L J high Reported between MDL and CRDL, ICAL %RSD is 51.5  TB04-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL, ICAL %RSD is 51.5  TB04-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL, ICAL %RSD is 51.5  TB04-09 VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL, ICAL VOCs Acetone 2 ug/L J NDT Reported between MDL and CRDL NOCs Acetone 2 ug/L J NDT Reported between MDL and CRDL NOCs Acetone 1 ug/L J NDT Reported between MDL and CRDL NOCs Acetone 1 ug/L J NDT Reported between MDL and CRDL NOCs Acetone 1 ug/L J NDT Reported between MDL and CRDL NOCs Acetone 1 ug/L J NDT Reported between MDL and CRDL NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE			VOCs	Acetone	8		B high	Reported between MDL and CRDL, ICAL
Contamination from FB03-09.  WOCs Acetone 5 ug/L J NDT Reported between MDL and CRDL Ug/L J high Reported between MDL and CRDL (RSD is 51.5)  MW46-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW46-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW47-09 VOCs Methylene Chloride 8 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW51-09 VOCs Methylene Chloride 8 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW47-09 VOCs Methylene Chloride 8 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW47-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW47-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW47-09MS VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW47-09MSD VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW47-09MSD VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW47-09MSD VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW47-09MSD VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW47-09MSD VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW47-09MSD VOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW29-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW29-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW29-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW29-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)  MW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL (RSD is 51.5)			VOCs	2-Butanone	1	ug/L J	B NDT	Reported between MDL and CRDL
MW43-09 VOCs Acetone 4 ug/L J NDT Reported between MDL and CRDL, ICAL %RSD is 51.5  MW46-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL, ICAL %RSD is 51.5  MW47-09 VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL MW51-09 VOCs Methylene Chloride 8 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 2 ug/L J high Reported between MDL and CRDL, ICAL %RSD is 51.5  TB04-09 VOCs Methylene Chloride 3 ug/L J B high Reported between MDL and CRDL, ICAL %RSD is 51.5  TB04-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL, ICAL %RSD is 51.5  TB04-09 VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL, Blank contamination from FB03-09.  MW47-09MSD VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL NOCs Acetone 2 ug/L J NDT Reported between MDL and CRDL Acetone 1 ug/L J NDT Reported between MDL and CRDL FB02-09 SVOCs bis(2-Ethylhexyl) phthalate 2 ug/L J high Reported between MDL and CRDL Nitrobenzene-d5 surrogate out at 123% (3  114)  MW29-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL MW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL		MW37-09	VOCs	Methylene Chloride	4	ug/L J	3 high	·
VOCs Acetone 4 ug/L J high Reported between MDL and CRDL, ICAL %RSD is 51.5  MW46-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL MW51-09 VOCs Methylene Chloride 8 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 2 ug/L J high Reported between MDL and CRDL, ICAL %RSD is 51.5  TB04-09 VOCs Methylene Chloride 3 ug/L JB high Reported between MDL and CRDL, ICAL %RSD is 51.5  TB04-09 VOCs Methylene Chloride 3 ug/L JB high Reported between MDL and CRDL, ICAL %RSD is 51.5  TB04-09 VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 2 ug/L J NDT Reported between MDL and CRDL WOCs Acetone 2 ug/L J NDT Reported between MDL and CRDL NUT Reported between MDL and CRDL WOCs Acetone 1 ug/L J NDT Reported between MDL and CRDL FB02-09 SVOCs bis(2-Ethylhexyl) phthalate 2 ug/L J high Reported between MDL and CRDL Nitrobenzene-d5 surrogate out at 123% (3 114)  MW29-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL MW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL MW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL			VOCs	Acetone	5	ug/L	NDT	Reported between MDL and CRDL
MW46-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL MW51-09 VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL MW51-09 VOCs Methylene Chloride 8 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 2 ug/L J high Reported between MDL and CRDL, ICAL %RSD is 51.5  TB04-09 VOCs Methylene Chloride 3 ug/L J high Reported between MDL and CRDL, ICAL %RSD is 51.5  TB04-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL, Blank contamination from FB03-09.  MW47-09MS VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL MW47-09MSD VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL NDL NDL NDL NDL Reported between MDL and CRDL NDL NDL NDL Reported between MDL and CRDL NDL NDL NDL NDL NDL NDL NDL NDL NDL N		MW43-09	VOCs	Methylene Chloride	2	ug/L 、	NDT	Reported between MDL and CRDL
MW47-09 VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL MW51-09 VOCs Methylene Chloride 8 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL %RSD is 51.5  TB04-09 VOCs Methylene Chloride 3 ug/L JB high Reported between MDL and CRDL, ICAL %RSD is 51.5  TB04-09 VOCs Methylene Chloride 3 ug/L JB high Reported between MDL and CRDL, Blank contamination from FB03-09.  MW47-09MS VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 2 ug/L J NDT Reported between MDL and CRDL MW47-09MSD VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 1 ug/L J NDT Reported between MDL and CRDL FB02-09 SVOCs bis(2-Ethylhexyl) phthalate 2 ug/L J high Reported between MDL and CRDL, Nitrobenzene-d5 surrogate out at 123% (3 114)  MW29-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL MW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL			VOCs	Acetone	4	ug/L .	high	
MW51-09 VOCs Methylene Chloride 8 ug/L J NDT Reported between MDL and CRDL TB03-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL %RSD is 51.5  TB04-09 VOCs Methylene Chloride 3 ug/L JB high Reported between MDL and CRDL, ICAL %RSD is 51.5  TB04-09 VOCs Methylene Chloride 3 ug/L JB high Reported between MDL and CRDL, Blank contamination from FB03-09.  MW47-09MS VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 2 ug/L J NDT Reported between MDL and CRDL MW47-09MSD VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 1 ug/L J NDT Reported between MDL and CRDL FB02-09 SVOCs bis(2-Ethylhexyl) phthalate 2 ug/L J high Reported between MDL and CRDL, Nitrobenzene-d5 surrogate out at 123% (3 114)  MW29-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L JB NDT Reported between MDL and CRDL MW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL AMW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL AMW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL AMW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL AMW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL		MW46-09	VOCs	Methylene Chloride	3	ug/L	NDT	Reported between MDL and CRDL
TB03-09 VOCs Methylene Chloride 3 ug/L J NDT Reported between MDL and CRDL %RSD is 51.5  TB04-09 VOCs Methylene Chloride 3 ug/L JB high Reported between MDL and CRDL, ICAL %RSD is 51.5  TB04-09 VOCs Methylene Chloride 3 ug/L JB high Reported between MDL and CRDL, Blank contamination from FB03-09.  MW47-09MS VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 2 ug/L J NDT Reported between MDL and CRDL MW47-09MSD VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 1 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 1 ug/L J NDT Reported between MDL and CRDL FB02-09 SVOCs bis(2-Ethylhexyl) phthalate 2 ug/L J high Reported between MDL and CRDL, Nitrobenzene-d5 surrogate out at 123% (3 114)  MW29-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L JB NDT Reported between MDL and CRDL MW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL		MW47-09	VOCs	Methylene Chloride	2	ug/L د	NDT	Reported between MDL and CRDL
VOCs Acetone 2 ug/L J high Reported between MDL and CRDL, ICAL %RSD is 51.5  TB04-09 VOCs Methylene Chloride 3 ug/L JB high Reported between MDL and CRDL, Blank contamination from FB03-09.  MW47-09MS VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 2 ug/L J NDT Reported between MDL and CRDL MW47-09MSD VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 1 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 1 ug/L J NDT Reported between MDL and CRDL FB02-09 SVOCs bis(2-Ethylhexyl) phthalate 2 ug/L J high Reported between MDL and CRDL, Nitrobenzene-d5 surrogate out at 123% (3  114)  MW29-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L JB NDT Reported between MDL and CRDL MW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL		MW51-09	VOCs	Methylene Chloride	8	ug/L	NDT	Reported between MDL and CRDL
**RSD is 51.5** TB04-09 VOCs Methylene Chloride 3 ug/L JB high Reported between MDL and CRDL, Blank contamination from FB03-09.  MW47-09MS VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 2 ug/L J NDT Reported between MDL and CRDL MW47-09MSD VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 1 ug/L J NDT Reported between MDL and CRDL FB02-09 SVOCs bis(2-Ethylhexyl) phthalate 2 ug/L J high Reported between MDL and CRDL, Nitrobenzene-d5 surrogate out at 123% (3 114)  MW29-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L JB NDT Reported between MDL and CRDL MW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL		TB03-09		Methylene Chloride	3	ug/L c	NDT	Reported between MDL and CRDL
Contamination from FB03-09.  MW47-09MS VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 2 ug/L J NDT Reported between MDL and CRDL MW47-09MSD VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 1 ug/L J NDT Reported between MDL and CRDL FB02-09 SVOCs bis(2-Ethylhexyl) phthalate 2 ug/L J high Reported between MDL and CRDL, Nitrobenzene-d5 surrogate out at 123% (3 114)  MW29-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L JB NDT Reported between MDL and CRDL MW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL				Acetone	2	ug/L .	high	
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MW47-09MSD VOCs Methylene Chloride 2 ug/L J NDT Reported between MDL and CRDL VOCs Acetone 1 ug/L J NDT Reported between MDL and CRDL FB02-09 SVOCs bis(2-Ethylhexyl) phthalate 2 ug/L J high Reported between MDL and CRDL, Nitrobenzene-d5 surrogate out at 123% (3 114)  MW29-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L JB NDT Reported between MDL and CRDL MW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL		MW47-09MS		Methylene Chloride	2	ug/L		•
VOCs Acetone 1 ug/L J NDT Reported between MDL and CRDL FB02-09 SVOCs bis(2-Ethylhexyl) phthalate 2 ug/L J high Reported between MDL and CRDL, Nitrobenzene-d5 surrogate out at 123% (3 114)  MW29-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L JB NDT Reported between MDL and CRDL MW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL		•						•
FB02-09 SVOCs bis(2-Ethylhexyl) phthalate 2 ug/L J high Reported between MDL and CRDL, Nitrobenzene-d5 surrogate out at 123% (3 114)  MW29-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L JB NDT Reported between MDL and CRDL MW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL		MW47-09MSD		•		-		•
Nitrobenzene-d5 surrogate out at 123% (3 114) MW29-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L JB NDT Reported between MDL and CRDL MW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL					-	_		
MW29-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L JB NDT Reported between MDL and CRDL MW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL		FB02-09	SVOCs	bis(2-Ethylhexyl) phthalate	2	ug/L .	high	Nitrobenzene-d5 surrogate out at 123% (35
MW30-09 SVOCs bis(2-Ethylhexyl) phthalate 1 ug/L J NDT Reported between MDL and CRDL	•	A414/00 00	01/00	his 10 Fabruhan District	a			•
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		MW30-09 MW33-09	SVOCs	bis(2-Ethylhexyl) phthalate bis(2-Ethylhexyl) phthalate	1	ug/L ug/L u		

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ID	Field ID	Analysis	Analyte	result	unit flag	bias	comment
	FB03-09	Pesticides	delta-BHC	0.0017	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Aldrin	0.0046	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Methoxychlor	0.01	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
			gamma-Chlordane	0.0015	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
	FB04-09		beta-BHC	0.02	ug/L JP	NDT	
			delta-BHC	0.0012	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
	FB05-09		beta-BHC	0.0079	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
			Endrin aldehyde	0.0049	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
			alpha-Chlordane	0.0015	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW23-09		Heptachlor	0.0022	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW24-09		beta-BHC	0.0096	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
			delta-BHC	0.003	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW2 <u>9</u> -09		delta-BHC	0.0045	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
		·	gamma-Chlordane	0.0018	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW30-09	•	4,4'-DDT	0.0066	ug/L JP	NDT	Second column delta >25%, reported between MDL and CRDL
	MW33-09	•	beta-BHC	0.017	ug/L JPB	NDT	Second column delta >25%, reported between MDL and CRDL, associated blank contamination

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ID	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
			gamma-BHC (Lindane)	0.0025	ug/L	JP	NDT	Second column delta >25%, report
			Heptachlor	0.007	ug/L	JP	NDT	Second column delta >25%, report between MDL and CRDL
			4,4' DDD	0.0024	ug/L	JP	NDT	Second column delta >25%, report
			Methoxychlor	0.0036	ug/L	JP	NDT	Second column delta >25%, report between MDL and CRDL
			alpha-Chlordane	0.0014	ug/L	JP	NDT	Second column delta >25%, report between MDL and CRDL
	MW37-09		beta-BHC	0.019	ug/L	J	NDT	Reported between MDL and CRD
	MW43-09		beta-BHC	0.0045	ug/L		NDT	Reported between MDL and CRD associated blank contamination.
	MW51-09		alpha-BHC	0.0015	ug/L	JP	NDT	Second column delta >25%, report between MDL and CRDL
	MW47-09MS		4,4'-DDE	0.0028	ug/L	JP	NDT	Second column delta >25%, report between MDL and CRDL
			4,4'-DDD	0.0037	ug/L	JP	NDT	Second column delta >25%, report between MDL and CRDL
	•		Endrin ketone	0.03	ug/L	JP	NDT	Second column delta >25%, report between MDL and CRDL
	·		Endrin aldehyde	0.03	ug/L	JP	NDT	Second column delta >25%, report between MDL and CRDL
	MW47-09MSD	•	4,4'-DDE	0.0023	ug/L	J	NDT	Reported between MDL and CRD
			4,4'-DDD	0.0046	ug/L	JP	NDT	Second column delta >25%, report between MDL and CRDL
·			Endrin ketone	0.035	ug/L	JP	NDT	Second column delta >25%, report between MDL and CRDL
			Endrin aldehyde	0.034	ug/L	JP	NDT	Second column delta >25%, report between MDL and CRDL
	FB02-09		Mercury Cyanide	0.05 4.7	ug/L ug/L		Low Low	28 day holding time exceeded by 12 14 day holding time exceeded by 26
	FB03-09		Mercury	0.05	ug/L	UJ	Low	28 day holding time exceeded by 12
			Cyanide	4.7	ug/L	UJ	Low	14 day holding time exceeded by 26

ID	Field ID	Analysis	Analyte	result	unit flag	bias	comment
	FB04-09		Mercury	0.05	ug/L UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L UJ	Low	14 day holding time exceeded by 26 days
	FB05-09		Mercury	0.05	ug/L UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L UJ	Low	14 day holding time exceeded by 26 days
	MW23-09		Mercury	0.05	ug/L UJ	Low	28 day holding time exceeded by 12 days
	•		Cyanide	4.7	ug/L UJ	Low	14 day holding time exceeded by 26 days
	MW24-09	•	Mercury	0.05	ug/L UJ	Low	28 day holding time exceeded by 12 days
	MW29-09		Mercury	0.05	ug/L UJ	Low	28 day holding time exceeded by 12 days
		•	Cyanide	4.7	ug/L UJ	Low	14 day holding time exceeded by 26 days
	MW30-09		Mercury	0.05	ug/L UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L UJ	Low	14 day holding time exceeded by 26 days
	MW33-09		Mercury	0.05	ug/L UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L UJ	Low	14 day holding time exceeded by 26 days
	MW37-09	•	Mercury	0.05	ug/L UJ	Low	28 day holding time exceeded by 12 days
	MW43-09		Mercury	0.05	ug/L UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	40.6	ug/L J	Low	14 day holding time exceeded by 26 days
	MW46-09		Mercury	0.05	ug/L UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L UJ	Low	14 day holding time exceeded by 26 days
	MW47-09	-	Mercury	0.05	ug/L UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L UJ	Low	14 day holding time exceeded by 26 days
	MW51-09		Mercury	0.05	ug/L UJ	Low	28 day holding time exceeded by 12 days
			Cyanide	4.7	ug/L UJ	Low	14 day holding time exceeded by 26 days
	FB02-09	Metals	Barium	0.92	ug/L B	NDT	Reported between the MDL and CRDL
		•	Beryllium	0.24	ug/L B	NDT	Reported between the MDL and CRDL
			Calcium	251	ug/L B	NDT	Reported between the MDL and CRDL
			Chromium	1.2	ug/L B	NDT	Reported between the MDL and CRDL
			lron · ·	38	ug/L B	NDT	Reported between the MDL and CRDL
			Magnesium	93.1	ug/L B	NDT	Reported between the MDL and CRDL
			Manganese	0.81	ug/L B	NDT	Reported between the MDL and CRDL
			Sodium	846	ug/L B	NDT	Reported between the MDL and CRDL
		•	Zinc	5.1	ug/L B	NDT	Reported between the MDL and CRDL
	FB03-09		Barium	0.46	ug/L B	NDT	Reported between the MDL and CRDL
			Beryllium	0.23	ug/L B	NDT	Reported between the MDL and CRDL
	,		Calcium	82.3	ug/L B	NDT	Reported between the MDL and CRDL

ID Field ID Analysis	Analyte	result	unit	flag	bias	comment
	Chromium	1.4	ug/L	В	NDT	Reported between the MDL and CRDL
	Iron	80.6	ug/L	В	NDT	Reported between the MDL and CRDL
	Magnesium	38.5	ug/L	В	NDT	Reported between the MDL and CRDL
	Manganese	0.95	ug/L	В	NDT	Reported between the MDL and CRDL
	Nickel	1.1	ug/L	В	NDT	Reported between the MDL and CRDL
	Sodium	2220	ug/L	В	NDT	Reported between the MDL and CRDL
	Zinc	1.5	ug/L	В	NDT	Reported between the MDL and CRDL
FB04-09	Antimony	10.1	ug/L	В	NDT	Reported between the MDL and CRDL
	Barium	0.52	ug/L	В	NDT	Reported between the MDL and CRDL
· ·	Beryllium	0.32	ug/L	В	NDT	Reported between the MDL and CRDL
	Calcium	59.4	ug/L	В	NDT	Reported between the MDL and CRDL
	Magnesium	17.3	ug/L	В	NDT	Reported between the MDL and CRDL
	Manganese	0.3	ug/L	В	NDT	Reported between the MDL and CRDL
	Silver	0.66	ug/L	В	NDT	Reported between the MDL and CRDL
the second second	Sodium	559	ug/L	В	NDT	Reported between the MDL and CRDL
	Zinc	2.2	ug/L	B.	NDT	Reported between the MDL and CRDL
FB05-09	Barium ,	1.9	ug/L	В	NDT	Reported between the MDL and CRDL
·.	Beryllium	0.1	·ug/L	В	NDT	Reported between the MDL and CRDL
	Chromium	1.4	ug/L	В	NDT	Reported between the MDL and CRDL
	Magnesium	12.4	ug/L	В	NDT	Reported between the MDL and CRDL
	Manganese	0.33	ug/L	В	NDT	Reported between the MDL and CRDL
·,	Silver	0.47	ug/L	В	NDT	Reported between the MDL and CRDL
	Sodium	231	ug/L	В	NDT	Reported between the MDL and CRDL
MW11-09	Arsenic	4.2	ug/L	В	NDT	Reported between the MDL and CRDL
	Lead	1.7	ug/L	В	NDT	Reported between the MDL and CRDL
MW23-09	Antimony	2.3	ug/L	В	NDT	Reported between the MDL and CRDL
· · · · · ·	Barium	116		В	NDT	Reported between the MDL and CRDL
	Beryllium	0.37	ug/L	В	NDT	Reported between the MDL and CRDL
•	Cobalt	1.1	ug/L	В	NDT	Reported between the MDL and CRDL
•	Copper	4.7	ug/L	В	NDT	Reported between the MDL and CRDL
	Lead	2.9		В	NDT	Reported between the MDL and CRDL
	Nickel	10.6	ug/L	В	NDT	Reported between the MDL and CRDL
	Potassium	2220		В	NDT	Reported between the MDL and CRDL
•	Vanadium	3.3	ug/L	В	NDT	Reported between the MDL and CRDL
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D	Field ID	Analysis	Analyte	result	unit	flag	bias	comment
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			Zinc	8.6	ug/L	В	NDT	Reported between the MDL and CRDL
	MW24-09		Aluminum	157	ug/L	В	NDT	Reported between the MDL and CRDL
			Antimony	3.7	ug/L	В	NDT	Reported between the MDL and CRDL
	-		Barium	199	ug/L	В	NDT	Reported between the MDL and CRDL
			Beryllium	0.18	ug/L		NDT	Reported between the MDL and CRDL
			Cadmium	0.84	ug/L	В	NDT	Reported between the MDL and CRDL
			Chromium	5.1	ug/L	В	NDT	Reported between the MDL and CRDL
			Copper	2.9	ug/L	В	NDT	Reported between the MDL and CRDL
	·		Nickel	4	ug/L	В	NDT	Reported between the MDL and CRDL
		•	Potassium	1130	ug/L	В	NDT	Reported between the MDL and CRDL
		•	Vanadium	0.93	ug/L	В	NDT	Reported between the MDL and CRDL
			Zinc	1.5	ug/L	В	NDT	Reported between the MDL and CRDL
			Cyanide	8.1	ug/L	JB	low	Reported between the MDL and CRDL, 1-
		•	·					day holding time exceeded by 26 days.
	MW29-09		- Barium	116	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.29	ug/L		NDT	Reported between the MDL and CRDL
			Cadmium	0.6	ug/L		NDT	Reported between the MDL and CRDL
			Cobalt	1.1	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	8.1	ug/L	J	NDT	Reported between the MDL and CRDL
			Potassium	2760	ug/L	J	NDT	Reported between the MDL and CRDL
		•	Silver	0.45	ug/L		NDT	Reported between the MDL and CRDL
			Vanadium	1.2	ug/L		NDT	Reported between the MDL and CRDL
			Zinc	5.6	ug/L		NDT	Reported between the MDL and CRDL
	MW30-09		Aluminum	109	ug/L		NDT	Reported between the MDL and CRDL
			Antimony	2.6	ug/L		NDT	Reported between the MDL and CRDL
			Beryllium	0.24	ug/L		NDT	Reported between the MDL and CRDL
			Cadmium	0.56	ug/L	J	NDT	Reported between the MDL and CRDL
			Chromium	3.9	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	5.3	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	4.4	ug/L	Ĵ	NDT	Reported between the MDL and CRDL
			Nickel	10.6	ug/L	Ĵ	NDT	Reported between the MDL and CRDL
		•	Potassium	2230	ug/L	J	NDT	Reported between the MDL and CRDL
			Zinc	2.3	ug/L	J	NDT	Reported between the MDL and CRDL

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ID	Field ID	Analysis	Analyte	result	unit fl	ag	bias	comment
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	MW33-09		Aluminum	90.2	ug/L	J	NDT	Reported between the MDL and CRDL
			Antimony	2.3	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.4	ug/L		NDT	Reported between the MDL and CRDL
		•	Cadmium	1.5	ug/L	J	NDT	Reported between the MDL and CRDL
	•		Chromium	5	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	2.9	ug/L	J	NDT	Reported between the MDL and CRDL
			Copper	4.7	ug/L	J	NDT	Reported between the MDL and CRDL
			Nickel	9.2		J	NDT	Reported between the MDL and CRDL
			Silver	0.46	ug/L	J	NDT	Reported between the MDL and CRDL
		•	Vanadium	0.94	ug/L	J	NDT	Reported between the MDL and CRDL
			Zinc	1.4	ug/L	J	NDT	Reported between the MDL and CRDL
	MW37-09		Barium	24.2	ug/L	J	NDT	Reported between the MDL and CRDL
	•		Beryllium	0.37	ug/L	J	NDT	Reported between the MDL and CRDL
	•		Chromium	3.7	ug/L	J	NDT	Reported between the MDL and CRDL
			Cobalt	0.99	ug/L	J	NDT	Reported between the MDL and CRDL
	•		Copper	7.1	ug/L	J	NDT	Reported between the MDL and CRDL
			Lead	1.3	ug/L	J	NDT	Reported between the MDL and CRDL
			Nickel	8.2		J	NDT	Reported between the MDL and CRDL
			Potassium	1120	ug/L	J	NDT	Reported between the MDL and CRDL
			Vanadium	1.7	ug/L	J	NDT	Reported between the MDL and CRDL
•	1		Zinc	2.7	ug/L	J	NDT	Reported between the MDL and CRDL
	•	·	Cyanide	6.8	ug/L .		low	Reported between the MDL and CRDL, 14
		•	•		•			day holding time exceeded by 26 days.
	MW43-09		Barium	58	ug/L	J	NDT	Reported between the MDL and CRDL
			Beryllium	0.32	ug/L .	J	NDT	Reported between the MDL and CRDL
			Chromium	3.4	ug/L .	j	NDT	Reported between the MDL and CRDL
			Cobalt	2.1	ug/L	j	NDT	Reported between the MDL and CRDL
		1	Copper	1.3	ug/L .		NDT	Reported between the MDL and CRDL
			Nickel	4.3	ug/L .		NDT	Reported between the MDL and CRDL
		4 · 4	Potassium	465	ug/L	J	NDT	Reported between the MDL and CRDL
			Vanadium	1.6			NDT	Reported between the MDL and CRDL
	MW46-09		Aluminum	39.2	ug/L		NDT	Reported between the MDL and CRDL
		e i	Barium	146		j	NDT	Reported between the MDL and CRDL
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ID	Field ID	Analysis	Analyte	result	unit flaç	g bias	comment
			Beryllium	0.21	ug/L J	NDT	Reported between the MDL and CRDL
		•	Potassium	798	ug/L J	NDT	Reported between the MDL and CRDL
			Vanadium	1.8	ug/L J	NDT	Reported between the MDL and CRDL
			Zinc	2.2	ug/L J	NDT	Reported between the MDL and CRDL
	MW47-09		Aluminum	130	ug/L J	NDT	Reported between the MDL and CRDL
		•	Antimony	2.3	ug/L J	NDT	Reported between the MDL and CRDL
			Barium	6.2	ug/L J	NDT	Reported between the MDL and CRDL
			Beryllium	0.28	ug/L J	NDT	Reported between the MDL and CRDL
			Chromium	3.2	ug/L J	NDT	Reported between the MDL and CRDL
			Cobalt	0.74	ug/L J	NDT	Reported between the MDL and CRDL
			Copper	1.4	ug/L J	NDT	Reported between the MDL and CRDL
			Lead	1.6	ug/L J	NDT	Reported between the MDL and CRDL
		•	Magnesium	2480	ug/L J	NDT	Reported between the MDL and CRDL
			Manganese	5.4	ug/L J	NDT	Reported between-the MDL and CRDL
	•		Nickel	1.8	ug/L J	NDT	Reported between the MDL and CRDL
		•	Potassium	613	ug/L J	NDT	Reported between the MDL and CRDL
			Silver	0.58	ug/L J	NDT	Reported between the MDL and CRDL
			Sodium	4900	ug/L J	NDT	Reported between the MDL and CRDL
			Vanadium	0.7	ug/L J	NDT	Reported between the MDL and CRDL
	MW51-09		Aluminum	166	ug/L J	NDT	Reported between the MDL and CRDL
		•	Beryllium	0.44	ug/L J	NDT	Reported between the MDL and CRDL
			Cadmium	0.81	ug/L J	NDT	Reported between the MDL and CRDL
			Chromium	1.6	ug/L J	NDT	Reported between the MDL and CRDL
			Cobalt	0.76	ug/L J	NDT	Reported between the MDL and CRDL
			Copper	1.7	ug/L J	NDT	Reported between the MDL and CRDL
		· ,	Nickel	3.1	ug/L J	NDT	Reported between the MDL and CRDL
			Potassium	2410	ug/L J	NDT	Reported between the MDL and CRDL
			Selenium	3.1	ug/L J	NDT	Reported between the MDL and CRDL
			Vanadium	0.77	ug/L J	NDT	Reported between the MDL and CRDL
	FB02-09		Calcium	251	ug/L J	low	CCB conc. Of -49.98
	MW51-09		Zinc	1.1	ug/L UJ	low	CCB conc. Of -5.19
	MW30-09		Zinc	2.3	ug/L J	low	CCB conc. Of -5.19
	MW33-09		Zinc	1.4	ug/L J	low	CCB conc. Of -5.19
	MW46-09		Zinc	2.2	ug/L J	low	CCB conc. Of -5.19

ID	Field ID	Analysis	Analyte	result	unit flag	bias	comment
<del> </del>	MW43-09		Zinc	1.1	ug/L UJ	low	CCB conc. Of -5.19
	FB03-09		Calcium	82.3	ug/L J	low	CCB conc. Of -42.52
			Sodium	2220	ug/L J	low	CCB conc. Of -259.60
			Zinc	1.5	ug/L J	low	CCB conc. Of -5.19
	MW37-09		Zinc	2.7	ug/L J	low	CCB conc. Of -5.19
•	MW23-09		Zinc	. 8.6	ug/L J	low	CCB conc. Of -5.19
	MW24-09		Zinc	1.5	ug/L J	low	CCB conc. Of -5.28
	FB04-09		Calcium	59.4	ug/L J	low	CCB conc. Of -50.89
			Zinc	2.2	ug/L J	low	CCB conc. Of -5.28
	MW29-09		Zinc	5.6	ug/L J	low	CCB conc. Of -5.28
	FB05-09		Calcium	10.7	ug/L UJ	low	CCB conc. Of -65.53
			Zinc	1.1	ug/L UJ	low	CCB conc. Of -7.49

#### Notes:

B - Blank contamination possible

CCB - Continuing calibration blank

CCAL - Continuing calibration

CRDL - Contract required detection limit

ICAL - Initial calibration

J - Estimated

MDL - Method detection limit

MS/MSD - Matrix Spike/Matrix Spike Duplicate
P - Value for which the second column result was different by more than 25%

RSD - Relative standard deviation

ug/L - Micrograms per liter

UJ - Practical quantitation limit (PQL) is estimated

#### MEMORANDUM



To:

Trisha Woolslayer, MW

Date:

August 24, 1999

From:

Gilbert Dimidjian, MW

Job No.:

1252042

Subject:

Data Validation for American

SDG:

007

Chemical Service (ACS). Griffith, Indiana.

June 1999

#### INTRODUCTION

The following text is based on the validation of water samples collected at American Chemical Service, Inc. in June of 1999.

Five water samples and two field quality assurance samples were analyzed by CompuChem Laboratories, Cary, North Carolina for the following parameters:

- VOA's by CLP OLM 3.0 (samples MW13-09, MW13-99, MW 53-09, MW52-09, MW49-09, MW34-09, TB05-09)
- SVOA's by CLP OLM 3.0 (samples MW13-09, MW13-99, MW53-09, MW52-09, MW49-09, MW34-09)
- Pesticides/PCB's by CLP OLM 3.0 (samples MW13-09, MW13-99, MW53-09, MW52-09, MW49-09)
- Inorganics by CLP ILM04.0 (samples MW13-09, MW13-99, MW53-09, MW52-09, MW49-09)
- Cyanide by CLP ILM04.0 (samples MW13-09, MW13-99, MW53-09, MW52-09, MW49-09)

Data validation was conducted in accordance with procedures specified in *Pre-Design Activities Quality Assurance Project Plan (MW, 1995), National Functional Guidelines for Organic Data Review (USEPA, 1994a), and National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).* 

The following field quality control samples were collected during the June 1999 sampling round:

- One field duplicate: MW13-99 duplicate of MW13-09; and
- One trip blank: TB05-09

This memorandum contains a narrative summarizing the data quality objectives specified in the work plan, and provides a table of qualified data (Table 1-1 and 1-2) and supporting validation documentation (Attachment A).

#### SUMMARY

This section describes the quality control parameters reviewed during validation, summarizes the data quality objectives as a result of the validation and provides a summary of the deficiencies and qualification applied. The following paragraphs describe deficiencies that were identified which resulted in qualification of the sample results. Each analyses is separated into sections for clarity.

### Volatile Organic Componds

<u>Major Deficiencies</u>: The following paragraphs describe the major deficiencies identified during the validation process.

#### Holding Time

• All samples for this analysis exceeded the holding time requirement of 14 days by one day. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.

<u>Minor Deficiencies</u>: The following paragraphs describe the minor deficiencies that were identified during the validation process.

#### Initial Calibration

• The initial calibration (on 6/20/99;1249) percent relative standard deviation (RSD) for acetone (51.5 percent) were above the control limit of 30 percent. All positive results were qualified as an estimate "J" for acetone. The associated samples were MW13-09, MW13-99, MW 53-09, MW52-09, MW49-09, MW34-09, and TB05-09.

#### Continuing Calibration

• The continuing calibration CS990629B57 for 2-butanone (30.4 percent) and 1,1,2,2-tetrachloroethane (31.3 percent) had a percent difference that exceeded the control limit of ±25 percent. All positive results were qualified as "J" and all non-detects as "UJ". The associated sample was MW49-09.

### Semi-Volatile Organic Compounds

Major Deficiencies: There were no major deficiencies identified during the validation process.

Minor Deficiencies: The following paragraphs describe the minor deficiencies that were identified during the validation process.

#### Initial Calibration

• The initial calibration (on 6/30/99;2221) %RSD for 2,4-dinitrophenol (36.1 percent) exceeded the control limit of 30 percent. All positive results were qualified as "J"

and all non-detects as "UJ". The associated samples were MW13-99, MW13-09, MW52-09, MW53-09, and MW49-09.

#### Continuing Calibration

- Continuing calibration HG990714A66 had a percent difference for 3,3-dichlorobenzidine (28.2 percent) and 2,4-dinitrophenol (34.6 percent) that exceeded the control limit of 25 percent. All positive results were qualified as "J" and all non-detects as "UJ". The associated samples were MW13-99, MW13-09, and MW52-09.
- Continuing calibration HG990715A66 had a percent difference for 2,4-dinitrophenol (31.6 percent), 2,4-dinitrotoluene (28.4 percent), and 4,6-dinitro-2-methylphenol (25.5 percent) that exceeded the control limit of 25 percent. All positive results were qualified as "J" and all non-detects as "UJ". The associated samples were MW53-09 and MW49-09.
- Continuing calibration HG990722B66 had a percent difference for 4-nitroaniline (58.1 percent) and 3,3-dichlorobenzidine (26.6 percent) that exceeded the control limit of 25 percent. No qualification was required because there were no associated samples.

### Pesticides / PCBs

Major Deficiencies: There were no major deficiencies identified during the validation process.

<u>Minor Deficiencies</u>: Several minor deficiencies are outlined in the Data Quality Objectives section.

## **Inorganics / Cyanide**

<u>Major Deficiencies</u>: The following paragraphs describe the major deficiencies identified during the validation process.

#### Holding Time

• All samples analyzed for mercury exceeded the holding time requirement of 28 days by eight days. All positive results were qualified as "J" and all non-detects as "UJ" with a low bias.

<u>Minor Deficiencies</u>: The following paragraphs describe the minor deficiencies that were identified during the validation process.

#### Serial Dilution

 The percent difference for potassium (20.1 percent) exceeded the control limit of ±10% in sample MW49-09L. All positive results were qualified as estimated "J".

Due to a laboratory software limitation the interference check (ICS) recoveries for one sample was not reported (7/22/99, 9:09). This had to be hand calculated and verified by the reviewer.

Several samples contained detected concentrations of target analytes at concentrations between the instrument detection limit (IDL) and the contract required detection limit (CRDL). These were qualified as "B" by the laboratory, but during the validation process these qualifications were changed to a "J" flag which indicates an estimate. Table 1-2 summarizes the affected samples and analytes.

### DATA QUALITY OBJECTIVES

The following is a summary of the data quality objectives that were evaluated during the data validation process.

Reporting Limits: Reporting limits were met for all analyses with the following exception.

For VOCs: Reporting limits were met with the exception of cases in which dilution
was necessary. Original, out-of-calibration range data have been included for
confirmation of original detection limits and detections, when available. Sample
MW52-09 was only analyzed as a dilution due to a high analyte concentration;
therefore, no original out of calibration range data was included with this sample
package. No data were qualified as a result

#### Accuracy

<u>Laboratory Control Sample:</u> Validation of the LCS was not performed for the organic analyses because the data was not provided by the laboratory and is not required per OLM 3.0. The LCS for the inorganic analyses were within control limits and analyzed at the correct frequency.

<u>Surrogates</u>: The surrogate results were within laboratory specified limits with the following exceptions.

- For SVOCs: Surrogate 2,4,6-tribromophenol had recoveries above the upper control limit with a high bias. No qualification was required because it meet criteria set forth by the method.
- For Pesticides/PCBs: Surrogate recoveries for DCB were below the lower control limits but were within 10 and 30 percent. All compounds with detections were qualified as "J" and non-detects "UJ". The associated samples include MW53-09, MW52-09, and MW49-09.

Matrix Spike / Matrix Spike Duplicate: The MS/MSD results were within laboratory specified limits with the following exceptions.

- For SVOCs: MS/MSD recoveries exceeded the upper control limits, with a high bias. No qualification was required.
- For Pesticides/PCBs: MS recoveries for various compounds were below control limits, which represented a bias low. All associated data with positive results were qualified as "J" and non-detects were qualified as "UJ". Surrogates had poor recoveries and the RPD were out of control as well.

#### Precision

Field Duplicates: Field duplicate results were acceptable.

<u>Laboratory Duplicate Sample:</u> For inorganics / cyanide: Lab duplicate MW49-09D had RPDs which exceeded the control limit ranges for antimony, beryllium, cobalt, and copper. All positive results were qualified as estimated "J".

The overall results were acceptable, indicating that sampling and analytical precision objectives were met for the sampling event.

#### Completeness

The data package was complete for the requested analyses. No results were considered unusable. The completeness was 100 percent, which meets the completeness objective of 95 percent.

#### Representativeness:

Trip blank TB05-99, had no target analytes detected above the reporting limit for all analyses, indicating that the representativeness objectives for the sampling event were met.

#### Comparability:

All data were reported in similar units to facilitate comparison of results within the data packages. Samples arrived at the laboratory at 4°C, which is within the limits of 2-6°C. It should be noted that several samples were analyzed by EPA method CLP-VOA OLM3.0, CLP-SVOA OLM3.0, and CLP-Inorganics OLM 4.0 were analyzed after the recommended holding time. Because of the holding time exceedence, comparability might be affected.

As a result of this evaluation, all data within this SDG for wells at American Chemical Service are of known and acceptable quality in relation to the DQOs of this project. Although significant qualification were required due to holding time violation, the data are considered usable as qualified for the intended purposes. Table 1-1 and 1-2 summarizes the validation and laboratory qualifications for this sampling event.

#### REFERENCES

Pre-Design Activities Quality Assurance Project Plan, American Chemical Service, Inc. NPL Site, Griffith Indiana (MW, 1995).

National Functional Guidelines for Organic Data Review (USEPA, 1994a).

National Functional Guidelines for Inorganic Data Review (USEPA, 1994b).



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
945706	MW13-09	Chloromethane	.10	μg/L	UJ	Low	Missed Holding Time
	(VOC)	Bromomethane	10	μg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	10	μg/L	UJ	Low	Missed Holding Time
		Chloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Methylene Chloride	10	μg/L	UJ	Low	Missed Holding Time
		Acetone	4	μg/L	JB	Low	Missed HT / IC %RSD>30% / blnk contam. / below RL
		Carbon Disulfide	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Chloroform	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		2-Butanone	10	μg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	μg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	μg/L	UJ	Low	Missed Holding Time
		cis-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	. μg/L	UJ	Low	Missed Holding Time
		Benzene	10	μg/L	UJ	Low	Missed Holding Time
		trans-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
		Bromoform	10	μg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	10	μg/L	UJ	Low	Missed Holding Time
		2-Hexanone	10	μg/L	UJ	Low	Missed Holding Time
•		Tetrachloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Toluene	10	μg/L	UJ	Low	Missed Holding Time
		Chlorobenzene	10	μg/L	UJ	Low	Missed Holding Time



### TABLE 1-1

### SUMMARY OF ORGANIC DATA QUALIFICATIONS **SDG 007** AMERICAN CHEMICAL SERVICE, INC. GRIFFITH, INDIANA

### (Page 2 of 14)

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW13-09	Ethylbenzene	10	μg/L	UJ	Low	Missed Holding Time
	(VOC)	Styrene	10	μg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	10	μg/L	UJ	Low	Missed Holding Time
	(SVOC)	bis (2-ethylhexyl) phthalate	1	μg/L	J .	NDT	Detected below RL
		2,4-Dinitrophenol	25	μg/L	UJ	High	IC > CL / CC > CL
		3,3-Dichlorobenzidine	10	μg/L	UJ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		beta - BHC	0.0055	μg/L	JР	Low	MS %R < CL / MSD RPD > CL />25% diff. btwn 2 columns/below RL
		delta - BHC	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		gamma - BHC (Lindane)	0.050	μg/L	ŪJ	Low	MS %R < CL / MSD RPD > CL
		Heptachlor	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Aldrin	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Heptachlor epoxide	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endosulfan I	0.050	μg/L	UJ	Low	MS $\%$ R < CL / MSD RPD > CL
		· Dieldrin	0.10	μg/L	UJ	Low	MS $%R < CL / MSD RPD > CL$
		4,4' - DDE	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endosulfan II	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		4,4' - DDD	0.10	μg/L	UJ	Low	MS $%R < CL / MSD RPD > CL$
		Endosulfan sulfate	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		4,4' - DDT	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Methoxychlor	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin ketone	0.0042	μg/L	JP	Low	MS $R < CL / MSD RPD > CL / >25\% diff btwn 2 columns/below RL$
		Endrin aldehyde	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		alpha - Chlordane	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		gamma - Chlordane	0.050	μg/L «	UJ	Low	MS %R < CL / MSD RPD > CL
		Toxaphene	5.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL

TABLE 1-1

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW13-09	Arochlor - 1016	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
(Cont.)	(Pest/PCB)	Arochlor - 1221	2.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1232	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1242	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1248	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1254	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1260	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
945669	MW13-99	Chloromethane	10	μg/L	UJ	Low	Missed Holding Time
	(VOC)	Bromomethane	10	μg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	10	μg/L	UJ	Low	Missed Holding Time
		Chloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Methylene Chloride	2	μg/L	J	Low	Missed Holding Time / blank contamination / below RL
		Acetone	2	μg/L	JB	Low	Missed HT / IC '%RSD>30% / blnk contam. / below RL
		Carbon Disulfide	10	μg/L	UJ	Low	Missed Holding Time
	•	1,1-Dichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Chloroform	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		2-Butanone	10	μg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
	•	Carbon Tetrachloride	10	μg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	μg/L	UJ	Low	Missed Holding Time
		cis-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	μg/L	·UJ	Low	Missed Holding Time
		Benzene	10	μg/L	UJ	Low	Missed Holding Time

TABLE 1-1

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW13-99	trans-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
· · · · · · · · · · · · · · · · · · ·	(VOC)	Bromoform	10	μg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	10	μg/L	UJ	Low	Missed Holding Time
		2-Hexanone	10	μg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Toluene	10	μg/L	UJ	Low	Missed Holding Time
	•	Chlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		Ethylbenzene	10	μg/L	UJ	Low	Missed Holding Time
		Styrene	10	μg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	10	μg/L	UJ	Low	Missed Holding Time
	(SVOC)	2,4-Dinitrophenol	25	μg/L	UJ	High	IC > CL / CC > CL
		3,3-Dichlorobenzidine	10	μg/L	UJ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
	•	beta - BHC	0.0067	μg/L	JP	Low	MS %R < CL / MSD RPD > CL />25% diff. btwn 2 columns/below R
		delta - BHC	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		gamma - BHC (Lindane)	0.0043	μg/L	J	Low	MS %R < CL / MSD RPD > CL / below RL
		Heptachlor	0.0031	μg/L	JP	Low	MS %R < CL / MSD RPD > CL />25% diff. btwn 2 columns/below R
		Aldrin	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Heptachlor epoxide	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endosulfan I	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Dieldrin	0.0056	μg/L	J	Low	MS %R < CL / MSD RPD > CL />25% diff. btwn 2 columns/below R
	·	4,4' - DDE	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin	0.0060	μg/L	J	Low	MS %R < CL / MSD RPD > CL / below RL
		Endosulfan II	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL

TABLE 1-1

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW13-99	4,4' - DDD	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
	(Pest/PCB)	Endosulfan sulfate	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		4,4' - DDT	0.0076	μg/L	J	Low	MS %R < CL / MSD RPD > CL / below RL
		Methoxychlor	0.50	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin ketone	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Endrin aldehyde	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
	•	alpha - Chlordane	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		gamma - Chlordane	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Тохарнеле	5.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1016	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1221	2.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1232	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1242	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1248	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1254	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
		Arochlor - 1260	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL
945707	MW34-09	Vinyl Chloride	10	μg/L	UJ	Low	Missed Holding Time
	(VOC)	Chloroethane	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	μg/L	UJ	Low	Missed Holding Time
	•	1,1,2-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
•	•	Benzene	10	μg/L	UJ	Low	Missed Holding Time
•		Tetrachloroethene	10	μg/L	UJ	Low	Missed Holding Time
		cis-1,2-Dichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		trans-1,2-Dichloroethene	10	μg/L	UJ	Low	Missed Holding Time

TABLE 1-1

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
945689	MW49-09	Chloromethane	10	μg/L	UJ	Low	Missed Holding Time
	(VOC)	Bromomethane	10	μg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	10	μg/L	UJ	Low	Missed Holding Time
		Chloroethane	220	μg/L	DJ	Low	Missed Holding Time / Diluted
		Methylene Chloride	2	μg/L	J	Low	Missed Holding Time / blank contamination
		Acetone	9	μg/L	JB	Low	Missed HT / IC %RSD>30% / blnk contam. / below RL
		Carbon Disulfide	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Chloroform	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		2-Butanone	1	μg/L	JB	Low	Missed Holding Time / blnk contam. / CC > CL / below RI
		1,1,1-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	μg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	μg/L	UJ	Low	Missed Holding Time
		cis-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
	•	Benzene	2600	μg/L	JD	Low	Missed Holding Time / Diluted
		trans-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
		Bromoform	10	μg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	10	μg/L	UJ	Low	Missed Holding Time
		2-Hexanone	10	μg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	μg/L	UJ	Low	Missed Holding Time / CC > CL
		Toluene	1	μg/L	J	Low	Missed Holding Time / below RL

TABLE 1-1

(Page 7 of 14)

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW49-09	Chlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
	(VOC)	Ethylbenzene	10	μg/L	UJ	Low	Missed Holding Time
		Styrene	10	μg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	2	μg/L	J	Low	Missed Holding Time / below RL
	(SVOC)	2,2-oxybis (1-Chloropropane)	9	μg/L	J	NDT	Detected below RL
		Isophorone	3	μg/L	J	NDT	Detected below RL
		2,4-Dinitrophenol	25	μg/L	UJ	High	IC > CL / CC > CL
		2,4-Dinitrotoluene	10	μg/L	UJ	High	CC > CL
		4,6-Dinitro-2-Methylphenol	25	μg/L	UJ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.048	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		beta - BHC	0.048	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		delta - BHC	0.0019	μg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RI
i		gamma - BHC (Lindane)	0.048	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor	0.0083	μg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RI
		Aldrin	0.048	μg/L	UJ .	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor epoxide	0.048	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan I	0.048	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Dieldrin	0.095	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDE	0.095	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin	0.095	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan II	0.095	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDD	0.095	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan sulfate	0.095	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
•		4,4' - DDT	0.095	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Methoxychlor	0.48	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW49-09	Endrin ketone	0.0044	μg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
	(Pest/PCB)	Endrin aldehyde	0.095	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		alpha - Chlordane	0.048	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		gamma - Chlordane	0.048	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
	•	Toxaphene	4.8	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1016	0.95	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1221	1.9	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1232	0.95	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1242	0.95	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1248	0.95	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1254	0.95	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1260	0.95	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
945688	MW52-09	Chloromethane	100	μg/L	UJ	Low	Missed Holding Time
		Bromomethane	100	μg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	100	μg/L	UJ	Low	Missed Holding Time
		Chloroethane	100	μg/L	UJ	Low	Missed Holding Time
		Methylene Chloride	100	μg/L	UJ	Low	Missed Holding Time
		Acetone	100	μg/L	UJ	Low	Missed Holding Time / IC %RSD >30%
		Carbon Disulfide	100	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	100	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	100	μg/L	UJ	Low	Missed Holding Time
		Chloroform	100	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	100	μg/L	UJ	Low	Missed Holding Time
		2-Butanone	100	μg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	100	μg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	100	μg/L	UJ	Low	Missed Holding Time
	•	Bromodichloromethane	100	μg/L	UJ	Low	Missed Holding Time

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW52-09	1,2-Dichloropropane	100	μg/L	UJ	Low	Missed Holding Time
	(VOC)	cis-1,3-Dichloropropene	100	μg/L	UJ	Low	Missed Holding Time
	, ,	Trichloroethene	100	μg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	100	μg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	100	μg/L	UJ	Low	Missed Holding Time
		Benzene	100	μg/L	UJ	Low	Missed Holding Time
		trans-1,3-Dichloropropene	100	μg/L	UJ	Low	Missed Holding Time
		Bromoform	100	μg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	100	μg/L	UJ	Low	Missed Holding Time
		2-Hexanone	100	μg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	100	μg/L	UJ	Low	Missed Holding Time
•		1,1,2,2-Tetrachloroethane	100	μg/L	UJ	Low	Missed Holding Time
		Toluene	100	μg/L	UJ	Low	Missed Holding Time
		Chlorobenzene	100	μg/L	UJ	Low	Missed Holding Time
		Ethylbenzene	100	μg/L	UJ	Low	Missed Holding Time
	•	Styrene	100	μg/L	UJ	Low	Missed Holding Time
		Xylene (total)	100	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	100	μg/L	UJ	Low	Missed Holding Time
	(SVOC)	bis(2-ethylhexyl)phthalate	6	μg/L	. <b>J</b>	NDT	Detected below RL
		2,4-Dinitrophenol	25	μg/L	UJ	High	IC > CL / CC > CL
		3,3-Dichlorobenzidine	10	μg/L	UJ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		beta - BHC	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		delta - BHC	0.0025	μg/L	J	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below R
		gamma - BHC (Lindane)	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
	•	Heptachlor	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW52-09	Aldrin	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
	(Pest/PCB)	Heptachlor epoxide	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
	1	Endosulfan I	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Dieldrin	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDE	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan II	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4° - DDD	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan sulfate	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDT	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Methoxychlor	0.50	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin ketone	0.0038	μg/L	JР	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		Endrin aldehyde	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		alpha - Chlordane	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		gamma - Chlordane	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Toxaphene	5.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1016	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1221	2.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1232	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1242	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1248	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1254	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1260	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
945704	MW53-09	Chloromethane	10	μg/L	UJ	Low	Missed Holding Time
	(VOC)	Bromomethane	10	μg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	10	μg/L	UJ	Low	Missed Holding Time
		Chloroethane	10	μg/L	UJ	Low	Missed Holding Time

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW53-09	Methylene Chloride	100	μg/L	J	Low	Missed Holding Time / blank contamination
	(VOC)	Acetone	30	μg/L	JВ	Low	Missed Holding Time / IC %RSD>30% / blnk contam.
		Carbon Disulfide	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Chloroform	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		2-Butanone	3	μg/L	JB	Low	Missed Holding Time / blnk contam. / below RL
		1,1,1-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	μg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	μg/L	UJ	Low	Missed Holding Time
		cis-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Benzene	4	μg/L	J	Low	Missed Holding Time / below RL
		trans-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
1		Bromoform	10	μg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	3	μg/L	JB	Low	Missed Holding Time / blnk contam. / below RL
		2-Hexanone	10	μg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Toluene	1	μg/L	J	Low	Missed Holding Time / below RL
		Chlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		Ethylbenzene	10	μg/L	UJ	Low	Missed Holding Time
		Styrene	10	μg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	μg/L	UJ	Low	Missed Holding Time

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW53-09 (VOC)	1,2-Dichloroethene (total)	10	μg/L	UJ	Low	Missed Holding Time
	(SVOC)	2,4-Dinitrophenol	25	μg/L	UJ	High	IC > CL / CC > CL
		2,4-Dinitrotoluene	10	μg/L	UJ	High	CC > CL
		4,6-Dinitro-2-Methylphenol	25	μg/L	UJ	High	CC > CL
	(Pest/PCB)	alpha - BHC	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
	,	beta - BHC	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
	•	delta - BHC	0.0082	μg/L	J	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		gamma - BHC (Lindane)	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor	0.0085	μg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
		Aldrin	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Heptachlor epoxide	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan I	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Dieldrin	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDE	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
	•	Endosulfan II	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
	•	4,4' - DDD	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endosulfan sulfate	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		4,4' - DDT	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Methoxychlor	0.50	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Endrin ketone	0.0069	μg/L	JP	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL / below RL
	•	Endrin aldehyde	0.10	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		alpha - Chlordane	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		gamma - Chlordane	0.050	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Toxaphene	5.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL



### TABLE 1-1

# SUMMARY OF ORGANIC DATA QUALIFICATIONS SDG 007 AMERICAN CHEMICAL SERVICE, INC. GRIFFITH, INDIANA

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW53-09	Arochlor - 1016	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
	(Pest/PCB)	Arochlor - 1221	2.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1232	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1242	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1248	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1254	1.0	μg/L	UJ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
		Arochlor - 1260	1.0	μg/L	Πĵ	Low	MS %R < CL / MSD RPD > CL / Surrogate %R < CL
945708	TB05-09	Chloromethane	10	μg/L	UJ	Low	Missed Holding Time
	(VOC)	Bromomethane	10	μg/L	UJ	Low	Missed Holding Time
		Vinyl Chloride	10	μg/L	UJ	Low	Missed Holding Time
		Chloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Methylene Chloride	2	μg/L	J	Low .	Missed Holding Time / blank contamination / below RL
		Acetone	2	μg/L	JB	Low	Missed Holding Time / blnk contam. / below RL
		Carbon Disulfide	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Chloroform	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		2-Butanone	10	μg/L	UJ	Low	Missed Holding Time
		1,1,1-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Carbon Tetrachloride	10	μg/L	UJ	Low	Missed Holding Time
		Bromodichloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloropropane	10	μg/L	UJ	Low	Missed Holding Time
		cis-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
		Trichloroethene	10	μg/L	UJ	Low	Missed Holding Time
		Dibromochloromethane	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2-Trichloroethane	10	μg/L	UJ	Low	Missed Holding Time

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	TB05-09	Benzene	10	μg/L	UJ	Low	Missed Holding Time
	(VOC)	trans-1,3-Dichloropropene	10	μg/L	UJ	Low	Missed Holding Time
	•	Bromoform	10	μg/L	UJ	Low	Missed Holding Time
		4-Methyl-2-Pentanone	10	μg/L	UJ	Low	Missed Holding Time
		2-Hexanone	10	μg/L	UJ	Low	Missed Holding Time
		Tetrachloroethene	10	μg/L	UJ	Low	Missed Holding Time
		1,1,2,2-Tetrachloroethane	10	μg/L	UJ	Low	Missed Holding Time
		Toluene	10	μg/L	UJ.	Low	Missed Holding Time
		Chlorobenzene	10	μg/L	UJ	Low	Missed Holding Time
		Ethylbenzene	10	μg/L	UJ	Low	Missed Holding Time
		Styrene	10	μg/L	UJ	Low	Missed Holding Time
		Xylene (total)	10	μg/L	UJ	Low	Missed Holding Time
		1,2-Dichloroethene (total)	10	μg/L	UJ	Low	Missed Holding Time

B - Blank contamination

CC - Continuing calibration

CL - Control limit

D - Sample was diluted

HT - Holding time

IC - Initial calibration

J - Estimated value

μg/L - micrograms/Liter

MS - Matrix spike

MSD - Matrix spike duplicate

NDT - Not Determined

R - Recovery

RL - Reporting limit

RPD - Relative percent deviation

RSD - Relative standard deviation

U - The associated value is at or below MDL.



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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
945706	MW13-09	Aluminum	50.2	μg/L	J	NDT	Detected below RL
		Arsenic	2.2	μg/L	J	NDT	Detected below RL
		Barium	83.2	μg/L	J	NDT	Detected below RL
		Beryllium	0.19	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Cadmium	1.2	μg/L	J	NDT	Detected below RL
		Mercury	0.02	μg/L	UJ	Low	Missed Holding Time
		Nickel	1.4	μg/L	J	NDT	Detected below RL
		Potassium	1720	μg/L	JB	High	Serial Dilution %Difference > CL / below RL
		Vanadium	0.89	μg/L	J	NDT	Detected below RL
		Zinc	2.0	μg/L	J	NDT	Detected below RL
945669	MW13-99	Aluminum	51.1	μg/L	J	NDT	Detected below RL
		Antimony	2.1	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Barium	84.1	μg/L	J	NDT	Detected below RL
		Beryllium	0.23	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Cadmium	1.3	μg/L	J	NDT	Detected below RL
		Mcrcury	().02	μg/L	JB	Low	Missed Holding Time / below RL
		Nickel	1.3	μg/L	J	NDT	Detected below RL
		Potassium	1650	μg/L	JB	High	Serial Dilution %Difference > CL / below RL
		Vanadium	1.1	μg/L	J	NDT	Detected below RL
945707	MW34-09	Aluminum	119	μg/L	J	NDT	Detected below RL
	•	Barium	187	μg/L	J	NDT	Detected below RL
		Cadmium	0.58	μg/L	J	NDT	Detected below RL
		Cobalt	0.70	μg/L	JВ	High	Duplicate %RPD > CL / below RL
		Copper	7.7	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Lead	1.1	μg/L	J	NDT	Detected below RL



# SUMMARY OF INORGANIC DATA QUALIFICATIONS SDG 007 AMERICAN CHEMICAL SERVICE, INC. GRIFFITH, INDIANA

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Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW34-09	Mercury	0.02	μg/L	UJ	Low	Missed Holding Time
` ,		Nickel	12.3	μg/L	J	NDT	Detected below RL
		Potassium	3820	μg/L	JB	High	Serial Dilution %Difference > CL / below RL
		Zinc	5.6	μg/L	J	NDT	Detected below RL
945689	MW49-09	Antimony	42.4	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Barium	117	μg/L	J	NDT	Detected below RL
		Beryllium	0.53	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Chromium	1.9	μg/L	J	NDT	Detected below RL
		Cobalt	1.3	μg/L	JВ	High	Duplicate %RPD > CL / below RL
•		Copper	2.0	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Mercury	0.02	μg/L	UJ	Low	Missed Holding Time
		Nickel	5.5	μg/L	J	NDT	Detected below RL
		Potassium	4030	μg/L	JB	High	Serial Dilution %Difference > CL / below RL
	•	Selenium	3.5	μg/L	J	NDT	Detected below RL
		Thallium	8.0	μg/L	J	NDT	Detected below RL
		Vanadium	3.6	μg/L	J	NDT	Detected below RL
		Zinc	10.3	μg/L	J	NDT	Detected below RL
945688	MW52-09	Arsenic	3.3	μg/L	J	NDT	Detected below RL
		Beryllium	0.16	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Cadmium	0.86	μg/L	J	NDT	Detected below RL
	•	Chromium	3	μg/L	J	NDT	Detected below RL
		Cobalt	1.1	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Copper	1.9	μg/L	JВ	High	Duplicate %RPD > CL / below RL
		Cyanide	9	μg/L	J	NDT	Detected below RL
		Mercury	0.02	μg/L	UJ	Low	Missed Holding Time



# SUMMARY OF INORGANIC DATA QUALIFICATIONS SDG 007 AMERICAN CHEMICAL SERVICE, INC. GRIFFITH, INDIANA

### (Page 3 of 3)

Lab ID	Sample ID	Parameter	Result	Units	Qualifier	Bias	Explanation
(cont.)	MW52-09	Nickel	5	 μg/L		NDT	Detected below RL
•		Potassium	2360	μg/L	JB	High	Serial Dilution %Difference > CL / below RL
		Silver	0.36	μg/L	J	NDT	Detected below RL
		Vanadium	1.3	μg/L	J	NDT	Detected below RL
	•	Zinc	1.2	μg/L	J	NDT	Detected below RL
945704	MW53-09	Antimony	3.3	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Arsenic	3.4	μg/L	J	NDT	Detected below RL
		Beryllium	0.29	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Cadmium	1.4	μg/L	J	NDT	Detected below RL
		Chromium	2.3	μg/L	J	NDT	Detected below RL
		Cobalt	3.2	μg/L	JB	High	Duplicate %RPD > CL / below RL
		Mercury	0.08	μg/L	JB	Low	Missed Holding Time / below RL
		Nickel	8.6	μg/L	J	NDT	Detected below RL
	•	Potassium	20900	μg/L	J	High	Serial Dilution %Difference > CL
		· Vanadium	1.9	μg/L	J	NDT	Detected below RL
		Zinc	1.5	μg/L	J	NDT	Detected below RL

B - The associated value is detected above the IDL, but below the CRDL.

CL - Control limit

CRDL - Contract required detection limit .

IDL - Instrument detection limit

J - Estimated value

μg/L - micrograms/Liter

RL - Reporting limit

RPD - Relative percent deviation

U - The associated value is at or below IDL.

### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M4D-09 Contract: OLM03-REVS b Name: COMPUCHEM SDG No.: 00005 Lab Code: COMPU Case No.: 34200 SAS No.: Matrix: (soil/water) WATER Lab Sample ID: 945263 5.0 (g/mL) mL Sample wt/vol: Lab File ID: CN045263A57 Level: (low/med) Date Received: 06/12/99 LOW % Moisture: not dec. Date Analyzed: 06/24/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L CAS NO. COMPOUND Q 75-01-4-----Vinyl Chloride 10 U 75-00-3-----Chloroethane 10 U 75-35-4----1,1-Dichloroethene 10 U 71-55-6-----1,1,1-Trichloroethane\_ 10 U 79-01-6-----Trichloroethene 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2-----Benzene 10 U 127-18-4-----Tetrachloroethene 10 U

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M4D-09	
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Lab	Name:	COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00005

Matrix: (soil/water) WATER

Lab Sample ID: 945263

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cn045263a57

Level: (low/med)

1-2-3

LOW

Date Received: 06/12/99

% Moisture: not dec.

Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm)

Number TICs found: 0

Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_(uL

Soil Extract Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
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FORM I VOA-TIC

OLM03

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		INORGANIC A	ANALYSES DATA	SHEET	EFA SAMPLE NO.
Lab Name: COM	PUCHEM		Contract: I	LM04.0	M4D-09
ab Code: COM	PU_ Ca:	se No.: 342	200_ SAS No.	:	SDG No.: 00005_
Matrix (soil/	water): WATE	R		Lab Samp	le ID: 945263
Level (low/me	d): LOW_	<del>-</del>		Date Rec	eived: 06/12/99
Solids:	0.0	0			
Co	oncentration	Units (ug,	/L or mg/kg dry	y weight)	: UG/L
	CAS No.	Analyte	Concentration	C Q	M
	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7439-97-6 7440-02-0 7440-09-7	Selenium_ Silver			NR NR NR NR NR NR NR NR NR NR NR NR NR N
Color Before:	COLORLESS		ty Before: CLE.	_	Texture:
Color After:	COLORLESS	Clari	ty After: CLE	AR_	Artifacts:
Comments:					

FORM I - IN

ILM04.0

#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

And the state of the state of the state of

EPA SAMPLE NO.

MW07-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945495

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045495A57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. Date Analyzed: 06/27/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_(uL) Soil Aliquot Volume: \_\_\_\_ (uL

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

10 U 75-01-4------Vinyl Chloride 10 U 75-00-3-----Chloroethane 75-35-4-----1,1-Dichloroethene 10 U 10 U 71-55-6-----1,1,1-Trichloroethane\_ 79-01-6-----Trichloroethene 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2----Benzene 10 U 127-18-4-----Tetrachloroethene 10 U

FORM I VOA

# 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW0	7 -	09
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Lab Name: COMPUCHEM Contract: OLM03-REVS

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Number TICs found: 0

ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945495

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045495a57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. \_\_\_\_ Date Analyzed: 06/27/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER COMPOUND NAME RT EST. CONC. =============== ======| 10. 11. 12. 13.\_ 14.\_\_\_ 15.\_ 16.\_ 17.\_\_\_\_ 18.\_\_\_ 19.\_ 20.\_ 21.\_ 24. 26. 27. 28. 29. 30.

FORM I VOA-TIC

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### 1 TNORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	MO
$rac{1}{2}$	DEMILLIDE	INO.

						MW07-09
ab Name: COMP	UCHEM		Contract: II	LM04	.0	l
ab Code: COMP	U_ Ca	se No.: 342	SAS No.	:	<del></del>	SDG No.: 00005
atrix (soil/wa	Lab Sample ID: 945495					
evel (low/med)	): LOW_	_		Dat	e Rec	eived: 06/15/99
Solids:	0.0	0				
Cor	ncentration	Units (ug,	/L or mg/kg dry	y we	ight)	: UG/L
	CAS No.	Analyte	Concentration	С	Q ·	M
	7429-90-5	Aluminum		- -	<del></del>	$\left  \frac{1}{NR} \right $
		Antimony		- -		NR
	7440-38-2	Arsenic_	2.0	_   _		P
	7440-39-3	Barium		-		NR
	7440-41-7	Beryllium		- -		NR
		Cadmium		- -		NR
	7440-70-2	Calcium		- -		NR
	7440-47-3	Chromium		- -		NR
	7440-48-4	Cobalt		- -		NR
	7440-50-8	Copper		_ _		NR
	7439-89-6	Iron				NR
	7439-92-1	Lead	1.0	[Ū]		P_
	7439-95-4	Magnesium				NR
	7439-96-5	Manganese		_ _		NR
	7439-97-6	Mercury		_ _		NR
	7440-02-0	Nickel		_ _		NR
	7440-09-7	Potassium	 	_ _		NR
	7782-49-2	Selenium_		_ _		NR
	7440-22-4	Silver		_ _		NR
	7440-23-5	Sodium		_ _		NR
	7440-28-0	Thallium_		$ - _{-}$		NR
	7440-62-2	Vanadium_		_ _		NR
	7440-66-6	Zinc		_		NR
		Cyanide				NR NR
Color Before:	COLORLESS	Clari	ty Before: CLE	AR_		Texture:
olor After:	COLORLESS	Clari	ty After: CLE	AR_		Artifacts:
Comments:						

FORM I - IN

ILM04.0

ACSGWMW8-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944687

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044687A57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

COMPOUND

CAS NO.

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

74-87-3	Chloromethane	10 U
	Bromomethane	10 U
	Vinyl Chloride	10 0
	Chloroethane	10 U
	Methylene Chloride	2 J
67-64-1		ן 10 ע
75-15-0	Carbon Disulfide	10 U
75-35-4	1,1-Dichloroethene	10 0
75-34-3	1,1-Dichloroethane	10 U
67-66-3	Chloroform	10 U
107-06-2	1,2-Dichloroethane	10 U
78-93-3	2-Butanone	10 U
71-55-6	1,1,1-Trichloroethane	10 U
	Carbon Tetrachloride	10 U
75-27-4	Bromodichloromethane	10 U
	1,2-Dichloropropane	10 U
10061-01-5	cis-1,3-Dichloropropene	10 U
	Trichloroethene	10 U
	Dibromochloromethane	10 U
79-00-5	1,1,2-Trichloroethane	10 U
71-43-2		10 U
10061-02-6	trans-1,3-Dichloropropene	10 U
75-25-2		10 U
108-10-1	4-Methyl-2-Pentanone	10 U
	2-Hexanone	10 U
127-18-4	Tetrachloroethene	10 U
79-34-5	1,1,2,2-Tetrachloroethane	10 U
108-88-3	Toluene	10 U
	Chlorobenzene	10 U
	Ethylbenzene	10 U
100-42-5		10 ប
	Xylene (Total)	[ 10 U
540-59-0	1,2-Dichloroethene (total)	10 U
	<del>-</del>	1

### 1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW8-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944687

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: cn044687a57

Level: (low/med) LOW

Date Received: 06/11/99

% Moisture: not dec. \_\_\_\_\_

Dilution Factor: 1.0

GC Column: EQUITY624 ID: 0.53 (mm)

Number TICs found: 0

Date Analyzed: 06/23/99

Soil Aliquot Volume: \_\_\_\_(uL)

Soil Extract Volume:\_\_\_\_(uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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EPA SAMPLE NO.

ACSGWMW8-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Lab Sample ID: 944687 Matrix: (soil/water) WATER

1000 (g/mL) ML Lab File ID: GH044687A70 Sample wt/vol:

Level: (low/med) LOW Date Received: 06/11/99

decanted: (Y/N) Date Extracted:06/14/99 % Moisture:

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L COMPOUND CAS NO. 108-95-2----Phenol 10 U 111-44-4----bis(2-Chloroethyl)ether 10 U 10|U ា០|ប 10 U 10 U 10 U 10 U 106-44-5-----4-Methylphenol 10 U 621-64-7----N-Nitroso-di-n-propylamine 10 U 67-72-1-----Hexachloroethane 10 U 98-95-3----Nitrobenzene 10 U 78-59-1-----Isophorone 10 U 88-75-5----2-Nitrophenol 10 U 105-67-9----2,4-Dimethylphenol\_ .10 | U 111-91-1-----bis(2-Chloroethoxy) methane 10 U 120-83-2----2,4-Dichlorophenol 10 U 120-82-1-----1,2,4-Trichlorobenzene 10 U 91-20-3-----Naphthalene 10 U 106-47-8-----4-Chloroaniline 10 U 87-68-3-----Hexachlorobutadiene 10 U 59-50-7----4-Chloro-3-methylphenol\_ 10 lυ 91-57-6----2-Methylnaphthalene 10 U 77-47-4-----Hexachlorocyclopentadiene 10 U 88-06-2----2,4,6-Trichlorophenol 10 U 95-95-4----2,4,5-Trichlorophenol 25 U 91-58-7----2-Chloronaphthalene 10 U 88-74-4----2-Nitroaniline 25 U 131-11-3-----Dimethylphthalate 10 0 208-96-8-----Acenaphthylene 10 U 606-20-2----2,6-Dinitrotoluene 10 U 99-09-2----3-Nitroaniline 25 U 83-32-9-----Acenaphthene 10 U

FORM I SV-1

#### 1C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944687

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044687A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: decanted: (Y/N) Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

COMPOUND

GPC Cleanup: (Y/N) N pH:

218-01-9-----Chrysene

CAS NO.

51-28-5----2,4-Dinitrophenol 100-02-7----4-Nitrophenol 25 l U 132-64-9-----Dibenzofuran 10 U 121-14-2----2,4-Dinitrotoluene 10 U 84-66-2----Diethylphthalate 10 U 7005-72-3-----4-Chlorophenyl-phenylether 10 ប 86-73-7-----Fluorene 10 U 100-01-6-----4-Nitroaniline 25 U 534-52-1----4,6-Dinitro-2-methylphenol 25 l U 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3-----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 U 87-86-5-----Pentachlorophenol 25 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8------Carbazole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1-----3,3'-Dichlorobenzidine 10 U 56-55-3-----Benzo(a) anthracene 10 U

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

(i) - Cannot be separated from Diphenylamine

117-84-0------Di-n-octylphthalate 205-99-2-----Benzo(b) fluoranthene

207-08-9-----Benzo(k) fluoranthene

50-32-8------Benzo(a)pyrene 193-39-5-----Indeno(1,2,3-cd)pyrene

53-70-3-----Dibenzo(a,h)anthracene\_ 191-24-2-----Benzo(g,h,i)perylene\_

117-81-7-----bis(2-Ethylhexyl)phthalate

FORM I SV-2

10 U

10 U

10 U

10 U

10 U

10 U

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

ACSGWMW8-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944687

Sample wt/vol:

Lab Code: COMPU

Case No.: 34200

1000 (uL)

Lab File ID: GH044687A70

Level: (low/med) LOW

1000 (g/mL) ML

Date Received: 06/11/99

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_

Date Analyzed: 07/20/99

Date Extracted:06/14/99

Concentrated Extract Volume:

Injection Volume:

2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 22

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBE	R	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.		l control of the cont	6.89 7.44 7.77 7.98 8.38 8.55 8.77 8.89 9.51 9.56 9.90 10.05 10.16 10.49 10.68 11.84 12.62 13.04 14.02 15.02 16.85 19.36	11 7 8 22 10 6 17 14 89 13 25 270 39 36 16 12 35 26	J JB B J J J J J J J J J J J J J J J J J

ACSGWMW8-09

Lab Name: COMPUCHEM Contract: OLM03-REVS Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002 Matrix: (soil/water) WATER Lab Sample ID: 944687 Sample wt/vol: 1050 (g/mL) ML Lab File ID: % Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_ Date Received: 06/11/99 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/15/99 Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/17/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: \_\_\_\_ Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

319-84-6alpha-BHC	0.048	-
319-85-7beta-BHC	0.048	U .
319-86-8delta-BHC	0.048	U
58-89-9gamma-BHC (Lindane)	0.048	U
76-44-8Heptachlor	0.048	U
309-00-2Aldrin	0.048	U
1024-57-3Heptachlor epoxide	0.048	
959-98-8Endosulfan I	0.048	
60-57-1Dieldrin	0.095	l
72-55-94,4'-DDE	0.095	l
72-20-8Endrin	0.095	
33213-65-9Endosulfan II	0.095	!
72-54-84,4'-DDD	0.095	
1031-07-8Endosulfan sulfate	0.095	
50-29-34,4'-DDT	0.095	
72-43-5Methoxychlor	0.48	
53494-70-5Endrin ketone	0.095	
7421-93-4Endrin aldehyde	0.095	
5103-71-9alpha-Chlordane	0.048	-
5103-74-2gamma-Chlordane	0.048	
8001-35-2Toxaphene	4.8	
12674-11-2Aroclor-1016	0.95	
11104-28-2Aroclor-1221	1.9	ı
11141-16-5Aroclor-1221		
	0.95	_
53469-21-9Aroclor-1242	0.95	
12672-29-6Aroclor-1248	0.95	
11097-69-1Aroclor-1254	0.95	_
11096-82-5Aroclor-1260	0.95	U
	l	l

FORM I PEST

### 1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Matrix (soil/water): WATER  Lab Sample ID: 944687  Level (low/med): LOW Date Received: 06/11/99  Solids:0.0  Concentration Units (ug/L or mg/kg dry weight): UG/L  CAS No. Analyte Concentration C Q M  7429-90-5 Aluminum 88.5 B P 7440-36-0 Antimony 1.0 U P 7440-38-2 Arsenic 1.4 U P 7440-39-3 Barium 121 B P 7440-41-7 Beryllium 0.26 B P			INORGANIC A	ANALYSES DATA S	SHEET	,
Date Received: 06/11/99   Date Received: 06/11/99   Solids:0.0   Concentration Units (ug/L or mg/kg dry weight): UG/L	Lab Name: COMP	UCHEM		Contract: Il	LM04.0	ACSGWMW8-09
Date Received: 06/11/99   Solids:0.0   Concentration Units (ug/L or mg/kg dry weight): UG/L	Lab Code: COMP	U_ Ca:	se No.: 342	200_ SAS No.	:	SDG No.: 0000
Concentration Units (ug/L or mg/kg dry weight): UG/L	Matrix (soil/w	ater): WATE	R		Lab Samp	le ID: 944687
Cas No.	Level (low/med	): LOW	_		Date Rece	eived: 06/11/99
CAS No.	% Solids:	0.0	0			·
T429-90-5	Co	ncentration	Units (ug,	L or mg/kg dry	y weight)	: UG/L
7440-36-0		CAS No.	Analyte	Concentration	C Q	М
7440-22-4       Silver       0.40       U       P         7440-23-5       Sodium       14200       P         7440-28-0       Thallium       2.1       U       P         7440-62-2       Vanadium       0.40       U       P         7440-66-6       Zinc       0.97       B       P         Cyanide       4.7       U       CA		7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-95-4 7439-96-5 7439-97-6 7440-02-0 7440-02-0 7440-23-5 7440-28-0 7440-62-2	Antimony_Arsenic_Barium_Beryllium Cadmium_Calcium_Chromium_Cobalt_Copper_Iron_Lead_Magnesium Manganese Mercury_Nickel_Potassium Selenium_Silver_Sodium_Thallium_Vanadium_Zinc	1.0 1.4 121 0.26 0.35 52200 3.5 1.1 1.7 1720 1.5 17400 100 0.05 0.50 862 1.6 0.40 14200 2.1 0.40 0.97	U	
Color Before: COLORLESS Clarity Before: CLEAR_ Texture:					<del>-</del>	
Color After: COLORLESS Clarity After: CLEAR_ Artifacts:	Color After:	COLORLESS	Clari	ty After: CLE.	AR_	Artifacts:
Comments:	Comments:					

FORM I - IN

ILM04.0

MW09R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 945685

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: CN045685A57

Level: (low/med) LOW

Date Received: 06/16/99

% Moisture: not dec.

Date Analyzed: 06/29/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_(uL

Soil Extract Volume: (uL)

CAS NO. COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L Q

	<del></del>	
74-87-3Chloromethane	10	U .
74-83-9Bromomethane	10	_
75-01-4Vinyl Chloride	10	
75-00-3Chloroethane	560	_
75-00-3Methylene Chloride		J
	9	
67-64-1Acetone	8	J
75-15-0Carbon Disulfide	10	
75-35-41,1-Dichloroethene	10	
75-34-31,1-Dichloroethane	10	
67-66-3Chloroform	10	
107-06-21,2-Dichloroethane	10	
78-93-32-Butanone	10	Ŭ
71-55-61,1,1-Trichloroethane	10	U
56-23-5Carbon Tetrachloride	10	U
75-27-4Bromodichloromethane	10	U
78-87-51,2-Dichloropropane	. 10	U
10061-01-5cis-1,3-Dichloropropene	10	U
79-01-6Trichloroethene	10	U
124-48-1Dibromochloromethane	10	
79-00-51,1,2-Trichloroethane	10	
71-43-2Benzene	170	•
10061-02-6trans-1,3-Dichloropropene	10	<del>u</del>
75-25-2Bromoform	10	l
108-10-14-Methyl-2-Pentanone	10	บี
591-78-62-Hexanone	10	บี
127-18-4Tetrachloroethene	10	Ū
79-34-51,1,2,2-Tetrachloroethane	10	_
108-88-3Toluene	10	
108-90-7Chlorobenzene		,
	10	U
100-41-4Ethylbenzene	10	U
100-42-5Styrene	10	
1330-20-7Xylene (Total)	10	§
540-59-01,2-Dichloroethene (total)	10	U

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ab Nam	e: COMPUCHEM	Contract	OLM03-REVS	MW09R-09

b Code: COMPU SDG No.: 00003 Case No.: 34200 SAS No.:

Matrix: (soil/water) WATER Lab Sample ID: 945685

Sample wt/vol: Lab File ID: 5.0 (g/mL) mL cn045685a57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. Date Analyzed: 06/29/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_(uL Soil Extract Volume: (uL)

CONCENTRATION UNITS: Number TICs found: 2 (ug/L or ug/Kg) ug/L

1. 108-20-3 2. 111-43-3 3.	. CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
26. 27.	1. 108-20-3 2. 111-43-3 3. 4. 55. 66. 77. 88. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26.	DIISOPROPYL ETHER	10.72	10 18	NJ NJ

#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM

EPA SAMPLE NO.

Contract: OLM03-REVS MW09R-09DL

CONCENTRATION UNITS:

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945685

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR045685A57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. Date Analyzed: 06/29/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 5.6

Soil Extract Volume: \_\_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_\_(uL

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q 74-87-3-----Chloromethane 56 U 74-83-9-----Bromomethane 56 U 75-01-4-----Vinyl Chloride 56 U 75-00-3-----Chloroethane 490 D 75-09-2-----Methylene Chloride 12 DJ 67-64-1-----Acetone 15 DJ 75-15-0-----Carbon Disulfide 56 U 75-35-4----1,1-Dichloroethene 56 U 75-34-3-----1,1-Dichloroethane 56 U 56 U 67-66-3-----Chloroform 107-06-2----1,2-Dichloroethane 56 U 78-93-3----2-Butanone 71-55-6-----1,1,1-Trichloroethane 56 U 56-23-5-----Carbon Tetrachloride 56 U 75-27-4-----Bromodichloromethane 78-87-5-----1,2-Dichloropropane 56 U 56 U 10061-01-5----cis-1,3-Dichloropropene 56 U 79-01-6-----Trichloroethene 56 U 124-48-1-----Dibromochloromethane 56 U 79-00-5-----1,1,2-Trichloroethane 56 U 71-43-2-----Benzene 160 D 10061-02-6----trans-1,3-Dichloropropene 56 U 75-25-2-----Bromoform 56 U 108-10-1-----4-Methyl-2-Pentanone 56 U 591-78-6----2-Hexanone 56 U 127-18-4-----Tetrachloroethene 56 U 79-34-5-----1,1,2,2-Tetrachloroethane\_ 108-88-3-----Toluene\_ 56 U 56 U 108-90-7-----Chlorobenzene 56 U 100-41-4-----Ethylbenzene 56 U 100-42-5------Styrene 1330-20-7------Xylene (Total) 56 U 56 U 540-59-0-----1,2-Dichloroethene (total) 56 U

# 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW09R-09DI

Lab Name: COMPUCHEM		Contract: OLM03-REVS	TIMOSIC OSDI	
Lab Code: COMPU	Case No.: 34200	SAS No.: SDG	No.: 00003	V
<pre>Matrix: (soil/water)</pre>	WATER	Lab Sample ID	: 945685	
Sample wt/vol:	5.0 (g/mL) mL	Lab File ID:	cr045685a57	
Level: (low/med)	LOW	Date Received	: 06/16/99	
% Moisture: not dec.		Date Analyzed	: 06/29/99	
GC Column: EQUITY624	ID: 0.53 (mm)	Dilution Facto	or: 5.6	•
Coil Extract Volume.	(11T.)	Soil Aliquet	Volumo.	/.iT

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				= = = =   
2				
* ·				
5				
8:		<u> </u>		
9				
11.				
13.				
14				
16.				
17.				
20:				
21.				
23				
24				
26. 27.				
ZO.				
20				
1		1		l

FORM I VOA-TIC

Lab Name: COMPUCHEM Contract: OLM03-REVS MW09R-09

ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945685

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045685A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99/

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

		(15)		~
	108-95-2Pl	nenol	10	U
		s(2-Chloroethyl)ether		
	95-57-82	-Chlorophenol		U
	541-73-11	3-Dichlorobenzene	10	-
	106-46-71	4-Dichlorobenzene		
	95-50-11	2-Dichlorobenzene		
	95-48-72	-Methylphenol	10	υ
	108-60-12	2'-oxybis(1-Chloropro	pane) 10	Ū
	106-44-54	-Methylphenol	10	U
	621-64-7 <b></b> -N	-Nitroso-di-n <del>-propylam</del>	ine 10	U
	67-72-1He	exachloroethane	10	י ט
	98-95-3N	trobenzene	10	ָּט
	78-59-1Is	sophorone	10	U
	88-75-52	-Nitrophenol	10	ָּט
	105-67-92	4-Dimethylphenol	10	ָּטֹ
	111-91-1b	is(2-Chloroethoxy)meth	ane 10	U
	120-83-22	4-Dichlorophenol		ט ו
	120-82-11	,2,4-Trichlorobenzene	10	U
	91-20-3Na	aphthalene -	10	Ü
	106-47-84	-Chloroaniline	10	U
	87-68-3He	exachlorobutad <del>iene</del>	10	U
	59-50-7 <b>4</b>	-Chloro-3-methylphenol	10	U
ĺ	91-57-62	-Methylnaphthalene		U
	77-47-4H	exachlorocyclopentadie	ne 10	Ŭ
	88-06-22	,4,6-Trichlorophenol		U
	95-95-42	,4,5-Trichlorophenol	. 25	U .
	91-58-72	-Chloronaphthalene	10	U.
l	88-74-42	-Nitroaniline	25	U
	131-11-3D	imethylphthalate	10	ן די ן
	208-96-8A	cenaphthylene	10	U
l	606-20-22	,6-Dinitrotoluene	10	<b>ט</b>
	99-09-23	-Nitroaniline	25	U
l	83-32-9A	cenaphthene		ט
•				· ·

MW09R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945685

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045685A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

pH:

injection volume. 2.0 (db)

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or uġ/Kg) UG/L Q

51-28-5	2,4-Dinitrophe	enol	25	U
100-02-7	4-Nitrophenol		25	
132-64-9	Dibenzofuran		10	
	2,4-Dinitroto	uene	10	
84-66-2	Diethylphthala	ate	10	
7005-72-3	4-Chloropheny	-phenylether	10	
86-73-7	Fluorene		10	
	4-Nitroaniline	2	25	
	4,6-Dinitro-2		25	
86-30-6	N-nitrosodiphe	enylamine (1)	10	lυ
	4-Bromophenyl		10	U
118-74-1	Hexachloroben	zene	10	U
	Pentachlorophe		25	
85-01-8			10	
120-12-7	Anthracene		10	U
86-74-8	Carbazole		10	U
84-74-2	Di-n-butyIphtl	nalate	10	U
206-44-0	Fluoranthene		10	U
129-00-0	Pyrene		10	U
85-68-7	Butylbenzylph	halate	10	U
91-94-1	3,3'-Dichlorol	oenzidine	10	U
56-55-3	Benzo(a) anthra	acene	10	U
218-01-9	Chrysene		10	U
117-81-7	bis(2-Ethylhe	xyl)phthalate	10	Ū
117-84-0	Di-n-octylpht	nalate	10	U
205-99-2	Benzo(b)fluor	anthene	10	U
207-08-9	Benzo(k)fluor	anthene	10	
50-32-8	Benzo(a)pyren	9	. 10	
193-39-5	Indeno(1,2,3-	cd) pyrene	10	
53-70-3	Dibenzo(a,h)a	nthracene		U
191-24-2	Benzo(g,h,i)p	erylene	10	U

FORM I SV-2

### EPA SAMPLE NO.

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW09R-09

Lab Name: COMPUCHEM Ontract: OLM03-REVS

ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945685

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045685A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

CONCENTRATION UNITS: Number TICs found: 30 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		5.57	5	====  J
1.	UNKNOWN UNKNOWN	5.69		J.
2. 3.	UNKNOWN	6.01	10	J
3.	UNKNOWN	6.37	4	J ·
4. 5. 6. 7.	UNKNOWN	7.04	5	J
<u> </u>	UNKNOWN	7.81		J
7	UNKNOWN	8.00	3	J
8.	UNKNOWN	8.69	2	J
9.	UNKNOWN	9.21	2	J
10.	UNKNOWN	9.42		Ĵ
11.	UNKNOWN	9.83	. 6	J
12.	UNKNOWN	10.00	$\frac{3}{4}$	Ĵ
13.	UNKNOWN	10.27	2	Ĵ
14.	UNKNOWN	11.16	$\begin{array}{c} - \\ 4 \end{array}$	Ĵ
15.	UNKNOWN	11.32	4	J
16.	UNKNOWN	11.93	4	J
17.	UNKNOWN	12.26	6	J
18.	UNKNOWN	12.42	3	J
19.	UNKNOWN	12.98	17	J
20. 10544-50-0	SULFUR, MOL. (S8)	14.17	14	NJ
21.	UNKNOWN	15.21	3	J
22.	UNKNOWN	15.51	4	J
23.	UNKNOWN	15.66	4	J
24.	UNKNOWN	15.82	: 3	J
25.	UNKNOWN	16.30	4.8	J
26.	UNKNOWN	16.42		J
27.	UNKNOWN	16.58	8 3 2	J.
28.	UNKNOWN	16.66		J
29.	UNKNOWN	18.84	6	J
30.	UNKNOWN	21.59	. 6	J
		l		

MW09R-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 945685

Sample wt/vol:

1000 (g/mL) ML

Lab File ID:

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_

Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted:06/17/99

Concentrated Extract Volume: 10000(uL)

Date Analyzed: 07/05/99

Injection Volume: 2.0(uL)

COMPOUND

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: \_\_\_\_

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

(ug/L or ug/Kg) UG/L

Q

1		
319-84-6	0.050 0.050 0.053 0.050 0.050 0.050 0.050 0.10 0.10 0.10	7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7
	0.10	U
		_
	U	
		_
5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane	0.010	
8001-35-2Toxaphene	5.0	-
12674-11-2Aroclor-1016	1.0	
11104-28-2Aroclor-1221	2.0	
11141-16-5Aroclor-1232	1.0	
53469-21-9Aroclor-1242	1.0	
12672-29-6Aroclor-1248	1.0	U
11097-69-1Aroclor-1254	1.0	
11096-82-5Aroclor-1260	1.0	U

### 1 INORGANIC ANALYSES DATA SHEET

		INORGANIC AN	IALYSES DATA	A SHEE'I'	,
					MW09R-09
Name:	COMPUCHEM	·	Contract:	ILM04.0	

EPA SAMPLE NO.

Lab	Code:	COMPU	Case No.:	34200	SAS No.:	SDG No.: 00003

Matrix (soil/water): WATER Lab Sample ID: 945685

Level (low/med): LOW\_\_\_ Date Received: 06/16/99

% Solids: \_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_\_\_\_

CAS No.	Analyte	Concentration	C	Q ·	M
7429-90-5	Aluminum_	296	-		P
7440-36-0	Antimony_	_1.8	Ū		P
7440-38-2	Arsenic	2.0	В		P
7440-39-3	Barium	230	ļ .		P .
7440-41-7	Beryllium		B.	2	P_
7440-43-9		- messerment Orn92	·B		P_
7440-70-2	Calcium	119000	1		P_
7440-47-3	Chromium	25.9	_		P
7440-48-4	Cobalt	3.3	$\overline{\mathtt{B}}$		P_
7440-50-8	Copper	5.7	В		P_
7439-89-6	Iron	4980			$ P^- $
7439-92-1	Lead	1.0	บั		P-
7439-95-4	Magnesium	16400			P :
7439-96-5	Manganese	199	_		Р_
7439-97-6	Mercury	0.05	Ū		$C\overline{V}$
7440-02-0	Nickel -	18.2	В		Р
7440-09-7	Potassium	7790		Ē	P_
7782-49-2	Selenium	3.1	Ū	N	P
7440-22-4	Silver -	0.30	Ū		P_
7440-23-5	Sodium	37400	-		P_
7440-28-0	Thallium	4.1	Ū		$\frac{1}{P}$
7440-62-2	Vanadium_	2.5	В		P-
7440-66-6				<b>₩</b> ★	
	Cyanide	4.7	$\overline{v}$	\ <del></del> .	CA
	", ", ", ", ", ", ", ", ", ", ", ", ",		J ॅ.		
l	.	l	١	l	!

Color Before:	COLORLESS .	Clarity Before:	CLEAR_	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR_	Artifacts:	
Comments:	•	•	·		•
· · · · · · · · · · · · · · · · · · ·			·		<del></del>

MW09R-09DLMS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944695

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044695B57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. Date Analyzed: 06/29/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 5.6

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

74-87-3Chloromethane	56	U
74-83-9Bromomethane	56	U
75-01-4Vinyl Chloride	56	Ü
75-00-3Chloroethane	490	Ŭ
75-09-2Methylene Chloride	9	J
67-64-1Acetone	12	BJ
75-15-0Carbon Disulfide	56	บ
75-35-41,1-Dichloroethene	250	١٥
75-34-31,1-Dichloroethane	56	<del>11</del>
67-66-3Chloroform	56	บ
107-06-21,2-Dichloroethane	56	_
		U
78-93-32-Butanone	56	Ū.
71-55-61,1,1-Trichloroethane	56	Ū
56-23-5Carbon Tetrachloride	56	U
75-27-4Bromodichloromethane	56	U
78-87-51,2-Dichloropropane	56	U
10061-01-5cis-1,3-Dichloropropene	56	U
79-01-6Trichloroethene	270	
124-48-1Dibromochloromethane	56	Ū
79-00-51,1,2-Trichloroethane	56	U
71-43-2Benzene	410	
10061-02-6trans-1,3-Dichloropropene	56	Ū
75-25-2Bromoform	56	U
108-10-14-Methyl-2-Pentanone	56	
591-78-62-Hexanone	56	Ū.
127-18-4Tetrachloroethene	56	U
79-34-51,1,2,2-Tetrachloroethane	56	Ū
108-88-3Toluene	270	١
108-90-7Chlorobenzene	270	<u> </u>
100-41-4Ethylbenzene	56	l <del>ii</del>
100-42-5Styrene	56	Ιŭ
1330-20-7Xylene (Total)	56	Π
540-59-01,2-Dichloroethene (total)	56	-
540-59-01,2-Dichiotoechene (cocal)	36	١٠
	l	l

FORM I VOA

MW09R-09DLMSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

重要的激素的重要的一个主动的一个人的。

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944696

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044696B57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/30/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 5.6

Soil Extract Volume: \_\_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_\_(uL

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

74-87-3Chloromethane	56	ŢŢ
74-83-9Bromomethane	56	-
75-01-4Vinyl Chloride	56	Ü
75-00-3Chloroethane	56	Ŭ
75-09-2Methylene Chloride	9	J
67-64-1Acetone	9	ВJ
75-15-0Carbon Disulfide	56	IJ
75-35-41,1-Dichloroethene	250	0
75-34-31,1-Dichloroethane	56	<del>U</del>
67-66-3Chloroform	56	_
107-06-21,2-Dichloroethane	56	
78-93-32-Butanone	56	
71-55-61,1,1-Trichloroethane	56 56	
56-23-5Carbon Tetrachloride	56	
75-27-4Bromodichloromethane	56	
78-87-51,2-Dichloropropane	56	
10061-01-5cis-1,3-Dichloropropene	56	
79-01-6Trichloroethene		U
124-48-1Dibromochloromethane	270	TT -
79-00-51,1,2-Trichloroethane	56	
	56	Ŭ
71-43-2Benzene	410	
10061-02-6trans-1,3-Dichloropropene	56	-
75-25-2Bromoform	56	-
108-10-14-Methyl-2-Pentanone	56	Ŭ
591-78-62-Hexanone	56	U
127-18-4Tetrachloroethene	56	U
79-34-51,1,2,2-Tetrachloroethane	56	U
108-88-3Toluene	270	
108-90-7Chlorobenzene	270	
100-41-4Ethylbenzene	56	
100-42-5Styrene	56	U
1330-20-7Xylene (Total)	56	U
540-59-01,2-Dichloroethene (total)	56	U

MW09R-09MS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944699

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044699A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	<del></del>	
108-95-2Phenol 111-44-4bis(2-Chloroethyl)ether 95-57-82-Chlorophenol 541-73-11,3-Dichlorobenzene 106-46-71,4-Dichlorobenzene 95-50-11,2-Dichlorobenzene 95-48-72-Methylphenol 108-60-12,2'-oxybis(1-Chloropropane) 106-44-54-Methylphenol 621-64-7Hexachloroethane 98-95-3	74 25 74 10 34 10 10 10 10 10 10 10 10 10 10 10 10 10	ם שעטט טטטטט טטטטט טטטטט
98-95-3Nitrobenzene	10	Ū
105-67-92,4-Dimethylphenol	10	Ŭ
120-82-11,2,4-Trichlorobenzene 91-20-3Naphthalene	44	
87-68-3Hexachlorobutadiene 59-50-74-Chloro-3-methylphenol	10 95	U E
77-47-4Hexachlorocyclopentadiene 88-06-22,4,6-Trichlorophenol	10 10	U U
95-95-42,4,5-Trichlorophenol 91-58-72-Chloronaphthalene 88-74-42-Nitroaniline 131-11-3Dimethylphthalate	25 10 25 10	
208-96-8Acenaphthylene 606-20-22,6-Dinitrotoluene 99-09-23-Nitroaniline	10 10 25	ם ח
83-32-9Acenaphthene	50	

FORM I SV-1

OLM03.

MW09R-09MS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944699

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044699A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: decanted: (Y/N) Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

S1-28-52,4-Dinitrophenol
1) - Cannot be separated from Diphenylamine

CONCENTRATION UNITS:

FORM I SV-2

MW09R-09MSD

Contract: OLM03-REVS Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 944700 Sample wt/vol: 980 (g/mL) ML Lab File ID: GH044700A66

Level: (low/med) Date Received: 06/16/99 LOW

% Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_\_ Date Extracted:06/17/99

Date Analyzed: 06/22/99 Concentrated Extract Volume: 1000(uL)

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

		<del></del> ,
108-95-2Phenol	86	E
111-44-4bis(2-Chloroethyl)ether	24	1
95-57-82-Chlorophenol	81	
541-73-11,3-Dichlorobenzene	10	Ū
106-46-71,4-Dichlorobenzene	36	
95-50-11,2-Dichlorobenzene	10	ਹ——
95-48-72-Methylphenol	10	lu l
108-60-12,2'-oxybis(1-Chloropropane)	10	ן ט
106-44-54-Methylphenol	10	Ū
621-64-7N-Nitroso-di-n-propylamine	44	
67-72-1Hexachloroethane	10	<del>U                                   </del>
98-95-3Nitrobenzene	10	I I
78-59-1Isophorone	10	
88-75-52-Nitrophenol	10	U I
105-67-92,4-Dimethylphenol	10	- I
111-91-1bis(2-Chloroethoxy) methane	10	-
120-83-22,4-Dichlorophenol	10	-
120-82-11,2,4-Trichlorobenzene	40	-
91-20-3Naphthalene	10	<del>U                                   </del>
106-47-84-Chloroaniline	10	
87-68-3Hexachlorobutadiene	10	
59-50-74-Chloro-3-methylphenol	86	l
91-57-62-Methylnaphthalene	10	l
77-47-4Hexachlorocyclopentadiene	10	1
88-06-22,4,6-Trichlorophenol	10	1
95-95-42,4,5-Trichlorophenol	. 26	ן ט
91-58-72-Chloronaphthalene	10	1
88-74-42-Nitroaniline	. 26	
131-11-3Dimethylphthalate	10	1
208-96-8Acenaphthylene	10	1
606-20-22,6-Dinitrotoluene	10	1
99-09-23-Nitroaniline	. 26	Ū
83-32-9Acenaphthene	50	]
•		
		' ———

FORM I SV-1

MW09R-09MSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944700

Sample wt/vol: 980 (g/mL) ML Lab File ID: GH044700A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: decanted: (Y/N) Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH: \_

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

120-12-7Anthracene
--------------------

FORM I SV-2

OLM03.0

MW09R-09MS

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944702

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_ Date Received: 06/16/99

bace Received. 00/10/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/17/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

319-84-6alpha-BHC	0.050	U
319-85-7beta-BHC	<u> </u>	)
319-86-8delta-BHC	0.0033	,
58-89-9gamma-BHC (Lindane)	<u> </u>	
76-44-8Heptachlor	<u> </u>	
309-00-2Aldrin	<u> </u>	
1024-57-3Heptachlor epoxide	0.050	
959-98-8Endosulfan I	— 0.050 0.050	
60-57-1Dieldrin	0.96	
72-55-94,4'-DDE	0.30	
72-20-8Endrin	·····	
33213-65-9Endorulfan II		
	0.10	
72-54-84,4'-DDD	0.0049	ſ
1031-07-8Endosulfan sulfate	0.0072	i .
50-29-34,4'-DDT		
72-43-5Methoxychlor	0.50	
53494-70-5Endrin ketone	0.018	
7421-93-4Endrin aldehyde	0.10	-
5103-71-9alpha-Chlordane	0.0068	
5103-74-2gamma-Chlordane	0.050	
8001-35-2Toxaphene	5.0	ı
12674-11-2Aroclor-1016	1.0	
11104-28-2Aroclor-1221	2.0	
11141-16-5Aroclor-1232	1.0	U
53469-21-9Aroclor-1242	1.0	
12672-29-6Aroclor-1248	1.0	U
11097-69-1Aroclor-1254	1.0	
11096-82-5Aroclor-1260	1.0	บ

FORM I PEST

MW09R-09MSD

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944701

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99

Injection Volume: Dilution Factor: 1.0 2.0(uL)

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) N pH:

> CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO. COMPOUND 0

### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW10C-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945705

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045705A57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/29/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 100.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

 CAS NO.
 COMPOUND
 (ug/L or ug/Kg) ug/L
 Q

 74-87-3------Chloromethane
 1000 U

 74-83-9------Bromomethane
 1000 U

 75-01-4-----Vinyl Chloride
 1000 U

 75-09-3-----Chloroethane
 2600 U

 75-09-2-----Methylene Chloride
 130 J

 67-64-1------Acetone
 990 J

CONCENTRATION UNITS:

75-15-0-----Carbon Disulfide 1000 0 75-35-4----1,1-Dichloroethene 1000 U 75-34-3-----1,1-Dichloroethane 1000 U 67-66-3-----Chloroform 1000 U 107-06-2----1,2-Dichloroethane 1000 U 78-93-3----2-Butanone 1000 U 71-55-6-----1,1,1-Trichloroethane 1000 ប 56-23-5------Carbon Tetrachloride 1000 U 75-27-4-----Bromodichloromethane 1000 U 78-87-5-----1,2-Dichloropropane\_ 1000 U 10061-01-5----cis-1,3-Dichloropropene\_ 1000 U 79-01-6-----Trichloroethene 1000 U 124-48-1-----Dibromochloromethane 1000 U 79-00-5-----1,1,2-Trichloroethane 1000 U 71-43-2----Benzene 2000 10061-02-6----trans-1,3-Dichloropropene 1000 0 75-25-2-----Bromoform 1000 U 108-10-1-----4-Methyl-2-Pentanone 1000 U 591-78-6----2-Hexanone 1000 U 127-18-4-----Tetrachloroethene 1000 U 79-34-5-----1,1,2,2-Tetrachloroethane 1000 U

FORM I VOA

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

5.0 (g/mL) mL

Sample wt/vol:

EPA SAMPLE NO.

Lab File ID: cn045705a57

Lab Name: CO	DMPUCHEM	Contract:	OLM03-REVS	MW10C-09
				·

ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945705

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/29/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 100.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7 2. 109-99-9 3. 4.	ETHER FURAN, TETRAHYDRO-	7.56		NJ NJ
6. 7.				
10. 11. 12.				
13. 14. 15. 16.				
18. 19. 20.				
22. 23. 24. 25.				
26. 27. 28. 29.				
30				

FORM I VOA-TIC

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW10C-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945705

Sample wt/vol: 970 (g/mL) ML Lab File ID: GH045705A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: decanted: (Y/N) \_\_\_ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

		<del></del> ,
108-95-2Phenol	10	tī .
111-44-4bis(2-Chloroethyl)ether	10	
95-57-82-Chlorophenol	10	1 1
541-73-11,3-Dichlorobenzene	10	1 1
106-46-71,4-Dichlorobenzene	10	
95-50-11,2-Dichlorobenzene	10	
95-48-72-Methylphenol	10	1 1
108-60-12,2'-oxybis(1-Chloropropane)	10	1. ~
106-44-54-Methylphenol	10	1 - 1
621-64-7N-Nitroso-di-n-propylamine	10	!
67-72-1Hexachloroethane	10	_
98-95-3Nitrobenzene	10	l -
78-59-1Isophorone	10	
70-59-1Isophorone	10	
88-75-52-Nitrophenol	l	
105-67-92,4-Dimethylphenol	10	-
111-91-1bis(2-Chloroethoxy)methane	10	
120-83-22,4-Dichlorophenol	10	-
120-82-11,2,4-Trichlorobenzene	10	1 1
91-20-3Naphthalene	10	-
106-47-84-Chloroaniline	10	_
87-68-3Hexachlorobutadiene	10	
59-50-74-Chloro-3-methylphenol	10	_
91-57-62-Methylnaphthalene	10	_
77-47-4Hexachlorocyclopentadiene	10	, ,
88-06-22,4,6-Trichlorophenol	10	~
95-95-42,4,5-Trichlorophenol	2.6	_
91-58-72-Chloronaphthalene	10	-
88-74-42-Nitroaniline	26	1
131-11-3Dimethylphthalate	10	ט
208-96-8Acenaphthylene	10	-
606-20-22,6-Dinitrotoluene	10	U
99-09-23-Nitroaniline	26	ט
83-32-9Acenaphthene	10	U
		[

FORM I SV-1

MW10C-09 Contract: OLM03-REVS Lab Name: COMPUCHEM Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003 Matrix: (soil/water) WATER Lab Sample ID: 945705 Sample wt/vol: 970 (g/mL) ML Lab File ID: GH045705A66 Level: (low/med) LOW Date Received: 06/16/99 decanted: (Y/N) Date Extracted: 06/17/99 % Moisture: Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/22/99 Injection Volume: Dilution Factor: 1.0 2.0 (uL) GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 51-28-5-----2,4-Dinitrophenol 26 U 100-02-7-----4-Nitrophenol 26 U 132-64-9------Dibenzofuran 10 U 121-14-2----2,4-Dinitrotoluene 10 U 84-66-2-----Diethylphthalate 10 U 7005-72-3-----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 10 U 100-01-6-----4-Nitroaniline 26 U 534-52-1-----4,6-Dinitro-2-methylphenol 26 U 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3-----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 U 87-86-5-----Pentachlorophenol 26 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8-----Carbazole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate U 10 91-94-1-----3,37-Dichlorobenzidine\_ 10 U 56-55-3-----Benzo(a) anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate JΒ 2 117-84-0-----Di-n-octylphthalate 10 U

FORM I SV-2

205-99-2------Benzo(b) fluoranthene

50-32-8-----Benzo(a)pyrene

207-08-9-----Benzo(k) fluoranthene

193-39-5-----Indeno(1,2,3-cd)pyrene

53-70-3-----Dibenzo(a,h)anthracene

191-24-2----Benzo(g,h,i)perylene

(1) - Cannot be separated from Diphenylamine

10 U

10 U

10 U

10 U

10 U

10 U

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW10C-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 945705

Sample wt/vol: 970 (g/mL) ML Lab File ID: GH045705A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

CONCENTRATION UNITS: Number TICs found: 30 (ug/L or ug/Kg) UG/L

CAS NUMBER COMPOUND NAME	RT	EST. CONC.	Q
CAS NUMBER  ===================================	4.73 4.85 5.62 5.87 6.27 6.28 6.48 7.11 7.81 8.13 8.74 9.74 9.62 10.72 11.93 12.46 14.09 14.74 15.82	EST. CONC.  ===================================	

FORM I SV-TIC

Lab Code: COMPU

SDG No.: 00003

Lab Name: COMPUCHEM Contract: OLM03-REVS MW10C-09

Matrix: (soil/water) WATER Lab Sample ID: 945705

Sample wt/vol: 1020 (g/mL) ML Lab File ID:

Case No.: 34200 SAS No.:

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99 (days

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/05/99 18 days

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

319-84-6alpha-BHC	0.040	TT
319-04-0alpha-BnC	0.049	
319-85-7beta-BHC	0.017	J
319-86-8delta-BHC	0.0023	JP
58-89-9gamma-BHC (Lindane)	0.0012	JP
76-44-8Heptachlor	0.049	U
309-00-2Aldrin	0.049	U
1024-57-3Heptachlor epoxide	0.049	U
959-98-8Endosulfan I	0.049	U
60-57-1Dieldrin	0.098	U
72-55-94,4'-DDE	0.098	U ·
72-20-8Endrin	0.098	U
33213-65-9Endosulfan II	0.098	U
72-54-84,4'-DDD	0.098	Ū
1031-07-8Endosulfan sulfate	0.098	Ū
50-29-34,4'-DDT	0.098	Ū
72-43-5Methoxychlor	0.49	Ŭ
53494-70-5Endrin ketone	0.098	Ŭ
7421-93-4Endrin aldehyde	0.098	Ü
5103-71-9alpha-Chlordane	0.049	Ū
5103-74-2gamma-Chlordane	0.049	Ŭ .
8001-35-2Toxaphene	4.9	บ
12674-11-2Aroclor-1016	0.98	Ü
11104-28-2Aroclor-1016	1	
	2:0	ָ ט
11141-16-5Aroclor-1232	0.98	U
53469-21-9Aroclor-1242	0.98	Ŭ
12672-29-6Aroclor-1248	0.98	
11097-69-1Aroclor-1254	0.98	U
11096-82-5Aroclor-1260	0.98	U ·

# 1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

		INORGANIC A	ANALYSES DATA S	SHEET	1	
Lab Name: COMPUCHEM			Contract: II	Contract: ILM04.0		
ab Code: COME	PU_ Ca	se No.: 342	200_ SAS No.:		SDG No.: 00003	
Matrix (soil/w	vater): WATE	R		Lab Samp	le ID: 945705	
evel (low/med	l): LOW_			Date Rec	eived: 06/16/99	
Solids:	0.	0				
· Co	ncentration	Units (ug,	L or mg/kg dry	weight)	: UG/L	
	CAS No.	Analyte	Concentration	C Q	М	
	7429-90-5 7440-36-0 7440-38-2 7440-43-9 7440-43-9 7440-47-3 7440-47-3 7440-48-4 7440-50-8 7439-95-4 7439-95-4 7439-96-5 7439-97-6 7440-02-0 7440-02-0 7440-23-5 7440-28-0 7440-62-2 7440-66-6	CadmiumCalciumCalciumChromium_CobaltCopperIron_LeadMagnesium_Manganese_Mercury_NickelPotassium_Selenium_SilverSodium_Thallium_Vanadium	384 2.1 2.0 333  103000 15.4 2.7 3.6 8520 1.0 52200 74.0 0.05 13.4 3630 3.1 0.30 186000 4.1 2.0	U B B E U N U B B E U U B B B E W T T T T T T T T T T T T T T T T T T	P P P P P P P P P P P P P P P P P P P	
Color Before:	COLORLESS	Clari	ty Before: CLE	AR_	Texture:	
Color After:	COLORLESS	Clari	ty After: CLE	AR_	Artifacts:	
Comments:	•					

FORM I - IN

#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: COMPUCHEM Contract: OLM03-REVS MW23-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945493

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045493A57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. Date Analyzed: 06/27/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L

			. *
74-87-3	Chloromethane	10	U
	Bromomethane	<del></del>	ΰ
	Vinyl Chloride		Ŭ
	Chloroethane	—  10 10	
	Methylene Chloride	—  4	1
67-64-1		$\overline{}$	
	Carbon Disulfide		Ŭ.
	1,1-Dichloroethene		Ü
	1,1-Dichloroethane		Ū
	Chloroform		Ŭ
	1,2-Dichloroethane		Ŭ
	2-Butanone	I	Ŭ
	1,1,1-Trichloroethane	<del></del> (	Ū
	Carbon Tetrachloride	<del></del> 1	Ū
	Bromodichloromethane	\	Ū
	1,2-Dichloropropane		Ū
	cis-1,3-Dichloropropene		Ŭ
	Trichloroethene		
	Dibromochloromethane		1 -
	1,1,2-Trichloroethane		
71-43-2			
	trans-1,3-Dichloropropene	<u> </u>	1
	Bromoform	<u> </u>	
	4-Methyl-2-Pentanone		1
	2-Hexanone	<u> </u>	
	Tetrachloroethene	<u> </u>	
	1,1,2,2-Tetrachloroethane	<del></del>	Ū
108-88-3			Ū
	Chlorobenzene		Ū
	Ethylbenzene		Ū
100-42-5			Ū
1330-20-7	Xylene (Total)	—  io	1
540-59-0	1,2-Dichloroethene (total)	—  io	
•		_	
		<del></del> '	- 1

#### 1E

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW	123	_	0	9	

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00005

Matrix: (soil/water) WATER

Lab Sample ID: 945493

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cn045493a57

Level: (low/med) LOW

Soil Extract Volume: (uL)

Date Received: 06/15/99

% Moisture: not dec.

Date Analyzed: 06/27/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: (uL

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
3				
6. 7.				
8. 9. 10.				
11.				
13. 14. 15.				
16.				
18. 19. 20.				
21. 22. 23.				
24. 25.				
26. 27. 28.				
29.				

FORM I VOA-TIC

OLM03

Lab Name: COMPUCHEM Contract: OLM03-REVS MW23-09

Ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945493

Sample wt/vol: 990 (g/mL) ML Lab File ID: GH045493A66

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

108-95-2	Phenol	1(	U
111-11-1-	bis(2-Chloroethyl)ether		ו סוס
95-57-8	2-Chlorophenol	10	1 1
	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	10	. 1 .
95-50-1	1,2-Dichlorobenzene	10	- 1 - 1
95-48-7	2-Methylphenol	10	1 1
108-60-1	2,2'-oxybis(1-Chloropropane)	10	
106-44-5	4-Methylphenol	10	
621-64-7	N-Nitroso-di-n-propylamine	10	ו שוכ
67-72-1	Hexachloroethane		ן טוכ
	Nitrobenzene		ן ט כ
	Isophorone	1	ט ע
88-75-5	2-Nitrophenol	10	ו ס וֹכ
105-67-9	2,4-Dimethylphenol	10	ט ט
111-91-1	bis(2-Chloroethoxy) methane	1	ט כ
120-83-2	2,4-Dichlorophenol	1.	o U
120-82-1	1,2,4-Trichlorobenzene	1	ו ש ס
91-20-3	Naphthalene	1	O U
	4-Chloroaniline	1	ט ט
	Hexachlorobutadiene	1	0   U
	4-Chloro-3-methylphenol	1	
91-57-6	2-Methylnaphthalene	1	0   U
	Hexachlorocyclopentadiene	1	0   U
	2,4,6-Trichlorophenol	1	
95-95-4	2,4,5-Trichlorophenol	2	5   U .
91-58-7~	2-Chloronaphthalene	1	
	2-Nitroaniline	. 2	
	Dimethylphthalate	1	L .
208-96-8	Acenaphthylene	1	
606-20-2	2,6-Dinitrotoluene	1	
	3-Nitroaniline	2	
83-32-9	Acenaphthene	1	0   U
			_

Lab Name: COMPUCHEM Contract: OLM03-REVS MW23-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945493

Sample wt/vol: 990 (g/mL) ML Lab File ID: GH045493A66

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: decanted: (Y/N) Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND COMP

51-28-52,4-Dinitrophenol   25 U   100-02-74-Nitrophenol   25 U   132-64-9Dibenzofuran   10 U   121-14-22,4-Dinitrotoluene   10 U   84-66-2Diethylphthalate   10 U   86-73-74-Chlorophenyl-phenylether   10 U   86-73-7Fluorene   10 U   100-01-64-Nitroaniline   25 U   534-52-14,6-Dinitro-2-methylphenol   25 U   86-30-6N-nitrosodiphenylamine (1)   10 U   101-55-34-Bromophenyl-phenylether   10 U   118-74-1Hexachlorobenzene   10 U   87-86-5Pentachlorophenol   25 U   85-01-8Phenanthrene   10 U   120-12-7Anthracene   10 U   86-74-8	1 <del></del>	<del> </del>	
100-02-74-Nitrophenol   25 U   132-64-9Dibenzofuran   10 U   121-14-22,4-Dinitrotoluene   10 U   84-66-2Diethylphthalate   10 U   86-73-7Fluorene   10 U   86-73-7Fluorene   10 U   100-01-64-Nitroaniline   25 U   534-52-14,6-Dinitro-2-methylphenol   25 U   86-30-6N-nitrosodiphenylamine (1)   10 U   101-55-34-Bromophenyl-phenylether   10 U   118-74-1Hexachlorophenol   25 U   85-01-8Pentachlorophenol   25 U   85-01-8Phenanthrene   10 U   120-12-7Anthracene   10 U   120-12-7	51-28-52,4-Dinitrophenol	25	U
132-64-9Dibenzofuran			U
84-66-2			U
84-66-2	121-14-22.4-Dinitrotoluene	101	U
Tous	84-66-2Diethylphthalate		
86-73-7Fluorene	7005-72-34-Chlorophenyl-phenylether		
100-01-64-Nitroaniline       25 U         534-52-14,6-Dinitro-2-methylphenol       25 U         86-30-6N-nitrosodiphenylamine       (1)         101-55-34-Bromophenyl-phenylether       10 U         118-74-1Hexachlorophenol       25 U         87-86-5Pentachlorophenol       25 U         85-01-8Phenanthrene       10 U         120-12-7Anthracene       10 U         86-74-8Carbazole       10 U         84-74-2Di-n-butylphthalate       10 U         206-44-0Fluoranthene       10 U         129-00-0			Ū
534-52-14,6-Dinitro-2-methylphenol       25 U         86-30-6N-nitrosodiphenylamine       10 U         101-55-34-Bromophenyl-phenylether       10 U         118-74-1Hexachlorobenzene       10 U         87-86-5Pentachlorophenol       25 U         85-01-8Phenanthrene       10 U         120-12-7Anthracene       10 U         86-74-8Carbazole       10 U         84-74-2Di-n-butylphthalate       10 U         25-68-7			
86-30-6N-nitrosodiphenylamine (1)       10 U         101-55-34-Bromophenyl-phenylether       10 U         118-74-1Hexachlorobenzene       10 U         87-86-5Pentachlorophenol       25 U         85-01-8Phenanthrene       10 U         120-12-7Anthracene       10 U         86-74-8Carbazole       10 U         84-74-2Di-n-butylphthalate       10 U         206-44-0Fluoranthene       10 U         129-00-0Pyrene       10 U         85-68-7Butylbenzylphthalate       10 U         91-94-13,3'-Dichlorobenzidine       10 U         218-01-9Benzo (a) anthracene       10 U         218-01-9Chrysene       10 U         117-84-0Di-n-octylphthalate       10 U         205-99-2Benzo (b) fluoranthene       10 U         207-08-9			_
101-55-34-Bromophenyl-phenylether       10 U         118-74-1Hexachlorobenzene       10 U         87-86-5Pentachlorophenol       25 U         85-01-8Phenanthrene       10 U         120-12-7Anthracene       10 U         86-74-8Carbazole       10 U         84-74-2Di-n-butylphthalate       10 U         206-44-0Fluoranthene       10 U         129-00-0Pyrene       10 U         85-68-7Butylbenzylphthalate       10 U         91-94-13,3'-Dichlorobenzidine       10 U         56-55-3	86-30-6N-nitrosodiphenylamine (1)		-
118-74-1Hexachlorobenzene       10 U         87-86-5Pentachlorophenol       25 U         85-01-8Phenanthrene       10 U         120-12-7Anthracene       10 U         86-74-8Carbazole       10 U         84-74-2Di-n-butylphthalate       10 U         206-44-0Fluoranthene       10 U         129-00-0Pyrene       10 U         85-68-7Butylbenzylphthalate       10 U         91-94-13,3'-Dichlorobenzidine       10 U         56-55-3Benzo(a) anthracene       10 U         218-01-9Chrysene       10 U         117-84-0Di-n-octylphthalate       10 U         205-99-2Benzo(b) fluoranthene       10 U         207-08-9Benzo(k) fluoranthene       10 U         50-32-8Benzo(a) pyrene       10 U		1	-
87-86-5Pentachlorophenol       25 U         85-01-8Phenanthrene       10 U         120-12-7	118-74-1Hexachlorobenzene	1	_
85-01-8Phenanthrene       10 U         120-12-7Anthracene       10 U         86-74-8Carbazole       10 U         84-74-2Di-n-butylphthalate       10 U         206-44-0Fluoranthene       10 U         129-00-0Pyrene       10 U         85-68-7Butylbenzylphthalate       10 U         91-94-13,3'-Dichlorobenzidine       10 U         56-55-3Benzo(a) anthracene       10 U         218-01-9			
120-12-7Anthracene       10 U         86-74-8Carbazole       10 U         84-74-2Di-n-butylphthalate       10 U         206-44-0Fluoranthene       10 U         129-00-0Pyrene       10 U         85-68-7Butylbenzylphthalate       10 U         91-94-13,3'-Dichlorobenzidine       10 U         56-55-3Benzo(a) anthracene       10 U         218-01-9Chrysene       10 U         117-81-7bis(2-Ethylhexyl)phthalate       10 U         205-99-2Benzo(b)fluoranthene       10 U         207-08-9Benzo(k)fluoranthene       10 U         50-32-8Benzo(a)pyrene       10 U			-
86-74-8Carbazole       10 U         84-74-2Di-n-butylphthalate       10 U         206-44-0Fluoranthene       10 U         129-00-0Pyrene       10 U         85-68-7Butylbenzylphthalate       10 U         91-94-13,3'-Dichlorobenzidine       10 U         56-55-3Benzo(a) anthracene       10 U         218-01-9Chrysene       10 U         117-81-7bis(2-Ethylhexyl)phthalate       10 U         117-84-0Benzo(b)fluoranthene       10 U         205-99-2Benzo(b)fluoranthene       10 U         50-32-8Benzo(a)pyrene       10 U			
84-74-2			-
206-44-0Fluoranthene       10 U         129-00-0Pyrene       10 U         85-68-7			-
129-00-0			-
85-68-7Butylbenzylphthalate       10 U         91-94-13,3'-Dichlorobenzidine       10 U         56-55-3Benzo(a) anthracene       10 U         218-01-9Chrysene       10 U         117-81-7bis(2-Ethylhexyl)phthalate       10 U         117-84-0Benzo(b)fluoranthene       10 U         205-99-2Benzo(b)fluoranthene       10 U         50-32-8Benzo(a)pyrene       10 U			_
91-94-13,3'-Dichlorobenzidine       10 U         56-55-3Benzo(a) anthracene       10 U         218-01-9Chrysene       10 U         117-81-7bis(2-Ethylhexyl)phthalate       10 U         117-84-0Benzo(b)fluoranthene       10 U         205-99-2Benzo(b)fluoranthene       10 U         207-08-9Benzo(k)fluoranthene       10 U         50-32-8Benzo(a)pyrene       10 U			
56-55-3Benzo(a) anthracene       10 U         218-01-9Chrysene       10 U         117-81-7bis(2-Ethylhexyl)phthalate       10 U         117-84-0Benzo(b)fluoranthene       10 U         205-99-2Benzo(b)fluoranthene       10 U         207-08-9Benzo(k)fluoranthene       10 U         50-32-8Benzo(a)pyrene       10 U	91-94-13 3'-Dichlorobenzidine	1	-
218-01-9Chrysene       10 U         117-81-7bis(2-Ethylhexyl)phthalate       10 U         117-84-0Benzo(b)fluoranthene       10 U         205-99-2Benzo(b)fluoranthene       10 U         207-08-9Benzo(k)fluoranthene       10 U         50-32-8Benzo(a)pyrene       10 U	56-55-3Benzo(a) anthracene	1	-
117-81-7bis(2-Ethylhexyl)phthalate       10 U         117-84-0bi-n-octylphthalate       10 U         205-99-2Benzo(b)fluoranthene       10 U         207-08-9Benzo(k)fluoranthene       10 U         50-32-8Benzo(a)pyrene       10 U			-
117-84-0Di-n-octylphthalate       10 U         205-99-2Benzo(b) fluoranthene       10 U         207-08-9Benzo(k) fluoranthene       10 U         50-32-8Benzo(a) pyrene       10 U			-
205-99-2Benzo(b) fluoranthene	117-81-0		-
207-08-9Benzo(k) fluoranthene 10 U 50-32-8Benzo(a) pyrene 10 U	205-99-2Bongo(b) fluoranthene	I I	
50-32-8Benzo(a)pyrene 10 U		1 . 1	_
10/0			•
193-39-5Indeno(1,2,3-cd)pyrene 10 U	193-39-5Indeno(1,2,3-cd)pyrene	1	•
	53-70-3	1	•
		1	-
191-24-2Benzo(g,h,i)perylene10 U	131-24-2Bell20 (g, ll, 1) peryrelle	1 10	U
1) - Cannot be separated from Diphenylamine	Cannot be conserted from Diphonilamina	11	<del>.</del>

FORM I SV-2

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

				MW23-09
ab Name:	COMPUCHEM	Contract	OLM03-REVS	

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945493

Sample wt/vol: 990 (g/mL) ML Lab File ID: GH045493A66

Level: (low/med) Date Received: 06/15/99 LOW

% Moisture: decanted: (Y/N) Date Extracted:06/17/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/22/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: Number TICs found: 6 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 5. 6.	UNKNOWN UNKNOWN UNKNOWN AMINE UNKNOWN UNKNOWN	7.81 8.16 9.43 9.83 13.30 15.42	2 5 9 2 7 4	J J J J J
8. 9. 10. 11. 12.				
14. 15. 16. 17. 18. 19. 20.				
22. 23. 24. 25. 26.				
27. 28. 29. 30.				·

FORM I SV-TIC

MW23-09

Lab Name: COMPUCHEM Contract: OLM03-REVS Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005 Matrix: (soil/water) WATER Lab Sample ID: 945493 Sample wt/vol: 1050 (g/mL) ML Lab File ID: % Moisture: decanted: (Y/N) Date Received: 06/15/99 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99 Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99 Dilution Factor: 1.0 Injection Volume: 2.0(uL) GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND Q

FORM I PEST

# 1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

		INORGANIC A	ANALYSES DATA S	SHEET	
Lab Name: COMP	UCHEM		Contract: II	LM04.0	MW23-09
Lab Code: COMP	U_ Cas	se No.: 342	200_ SAS No.	:	SDG No.: 00005_
Matrix (soil/wa	ater): WATE	₹ .		Lab Samp	le ID: 945493
Level (low/med)	): LOW_	_		Date Rec	eived: 06/15/99
% Solids:	0.0	)	•		
Coi	ncentration	Units (ug/	L or mg/kg dry	y weight)	: UG/L
	CAS No.	Analyte	Concentration	C Q	М
	7429-90-5 7440-36-0 7440-38-2 7440-41-7 7440-43-9 7440-47-3 7440-47-3 7440-48-4 7440-50-8 7439-95-4 7439-95-4 7439-95-4 7439-97-6 7440-02-0 7440-02-0 7440-23-5 7440-23-5 7440-28-0 7440-66-6	Aluminum_ Antimony_ Arsenic_ Barium_ Beryllium Cadmium_ Calcium_ Chromium_ Cobalt_ Copper_ Iron_ Lead_ Magnesium Manganese Mercury_ Nickel_ Potassium Selenium_ Silver_ Sodium_ Thallium_ Vanadium_ Zinc_ Cyanide_	0.50 74200 11.0 1.1 4.7 8830 2.9 22600 295 0.05 10.6	B B B B B B B B B B B B B B B B B B B	P
Color Before:	COLORLESS	Clari	ty Before: CLE	AR	Texture:
Color After:	COLORLESS	Clari	ty After: CLE	AR_	Artifacts:
Comments:					

FORM I - IN

ILM04.0

### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER

Lab Sample ID: 945665

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: CN045665A57

Level: (low/med) LOW

Date Received: 06/16/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

CONCENTRATION UNITS:

COMPOUND (ug/L or ug/Kg) ug/L CAS NO. 0 74-87-3-----Chloromethane 10 U 74-83-9-----Bromomethane 10 U 75-01-4-----Vinyl Chloride 10 U 75-00-3-----Chloroethane 10 U 75-09-2-----Methylene Chloride 4 | J 67-64-1-----Acetone 4 JB 75-15-0-----Carbon Disulfide 10 U 75-35-4-----1,1-Dichloroethene 10 U 75-34-3-----1,1-Dichloroethane 10 U 67-66-3-----Chloroform 10 U 107-06-2----1,2-Dichloroethane 10 U 78-93-3----2-Butanone 10 U 71-55-6-----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 U 75-27-4-----Bromodichloromethane 10 U 78-87-5-----1,2-Dichloropropane 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6-----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2----Benzene 10061-02-6----trans-1,3-Dichloropropene 10 U 10 U 75-25-2-----Bromoform 10 U 108-10-1----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U 127-18-4-----Tetrachloroethene 10 U 79-34-5-----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene 10 U 100-41-4-----Ethylbenzene 10 U 100-42-5-----Styrene 10 U 1330-20-7-----Xylene (Total) 10 U 540-59-0-----1,2-Dichloroethene (total) 10 U

FORM I VOA

OLM03

### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW24-09

Lab Name: COMPUCHEM
---------------------

Contract: OLM03-REVS

Lab Code: COMPU

Case No.: 34200

LOW

SAS No.:

SDG No.: 00005

Matrix: (soil/water) WATER

Lab Sample ID: 945665

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cn045665a57

Level: (low/med)

Date Received: 06/16/99

% Moisture: not dec.

Date Analyzed: 06/28/99

GC Column: EQUITY624

ID: 0.53

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: \_\_\_\_\_(uL

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	 RT	EST. CONC.	Q
1.			
3			
6. 7.			
8. 9. 10.			
11.			
14.			
15. 16. 17.			
18. 19. 20.			
22.			-
24. 25.			
26. 27.			
28. 29. 30.			

MW24-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945665

Sample wt/vol: 1050 (g/mL) ML Lab File ID: GH045665A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: decanted: (Y/N) Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

injection volume: 2.0 (dd) Diracton ractor. 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

95-57-8 541-73-1 106-46-7 95-50-1 95-48-7 108-60-1 106-44-5 621-64-7 98-95-3 78-59-1 111-91-1 120-83-2 111-91-1 120-83-2 1106-47-8 91-20-3 91-57-6 91-57-6 91-57-6 91-58-7 88-74-4	bis(2-Chloroethyl)ether2-Chlorophenol1,3-Dichlorobenzene1,4-Dichlorobenzene1,2-Dichlorobenzene2-Methylphenol2,2'-oxybis(1-Chloropropane)4-MethylphenolN-Nitroso-di-n-propylamineHexachloroethaneNitrobenzene1sophorone2,4-Dimethylphenol2,4-Dimethylphenol2,4-Trichlorobenzene1,2,4-TrichlorobenzeneNaphthalene4-Chloro-3-methylphenol2-Methylnaphthalene4-Chlorocyclopentadiene2,4,5-Trichlorophenol2,Chloronaphthalene2-Chloronaphthalene2-Chloronaphthalene	10 10 10 10 10 10 10 10 10 10 10	ממממממממממממממממממממממ
95-95-4 91-58-7 88-74-4 131-11-3 208-96-8 606-20-2 99-09-2	2,4,5-Trichlorophenol	25 10 25	ם ם ם ם ם ם ם

Lab Name: COMPUCHEM Contract: OLM03-REVS MW24-09

ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945665

Sample wt/vol: 1050 (g/mL) ML Lab File ID: GH045665A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: decanted: (Y/N) Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5----2,4-Dinitrophenol 25 U 100-02-7----4-Nitrophenol 25 U 132-64-9-----Dibenzofuran 10 U 121-14-2----2,4-Dinitrotoluene 10 U 84-66-2-----Diethylphthalate\_ 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 10 U 100-01-6-----4-Nitroaniline 25 U 534-52-1-----4,6-Dinitro-2-methylphenol\_ 86-30-6----N-nitrosodiphenylamine (1) 25 U 10 U 101-55-3-----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 U 25 U 87-86-5-----Pentachlorophenol 10 U 85-01-8-----Phenanthrene 120-12-7-----Anthracene 10 U 86-74-8-----Carbazole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluorantĥene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1-----3,37-Dichlorobenzidine 10 U 56-55-3-----Benzo(a)anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 10 U 117-84-0-----Di-n-octylphthalate 1.0 U 205-99-2-----Benzo(b) fluoranthene 10 U 207-08-9-----Benzo(k) fluoranthene 10 U 50-32-8-----Benzo (a) pyrene 10 U 193-39-5----Indeno(1,2,3-cd)pyrene 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 U 191-24-2-----Benzo(g,h,i)perylene 10 U (1) - Cannot be separated from Diphenylamine

FORM I SV-2

### 1F SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW	2	4	_	n	9
T.TAA	~	-1		v	フ

Lab Name: COMPUCHEM	Contract	t: OLMO3-REVS
Lab Code: COMPU	Case No.: 34200 SAS No	.: SDG No.: 00005
Matrix: (soil/water)	WATER	Lab Sample ID: 945665
Sample wt/vol:	1050 (g/mL) ML	Lab File ID: GH045665A66
Level: (low/med)	LOW	Date Received: 06/16/99
% Moisture:	decanted: (Y/N)	Date Extracted:06/17/99
Concentrated Extract	Volume: 1000(uL)	Date Analyzed: 06/22/99
Injection Volume:	2.0(uL)	Dilution Factor: 1.0
GPC Cleanup: (Y/N)	N pH:	
Number TICs found:		ENTRATION UNITS: L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1				
2. 3. 4.				
5.				
7. 8. 9.				
10.				
12.				
14.				
16. 17. 18.				
19.				
21.				
23. 24. 25.				_ <del></del>
25. 26. 27.				
28.				
30				

FORM I SV-TIC

OLM03.0

1050 (g/mL) ML

Sample wt/vol:

1月11日1日1日本本本書記述

Lab File ID:

MW24-09

Lab Fame: COMPUCHEM Contract: OLM03-REVS

ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945665

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_\_ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/17/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) N : Hg

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

319-84-6alpha-BHC	0.048	บ
319-85-7beta-BHC	0.0096	
319-86-8delta-BHC	0.0030	
58-89-9gamma-RHC (Lindane)	0.048	
76-44-8Heptachlor	0.048	_
309-00-2Aldrin	0.048	
1024-57-3Heptachlor epoxide	0.048	
959-98-8Endosulfan I	0.048	
60-57-1Dieldrin	0.095	_
72-55-94,4'-DDE	0.095	Ū
72-20-8Endrin	0.095	U
33213-65-9Endosulfan II	0.095	
72-54-84,4'-DDD	0.095	
1031-07-8Endosulfan sulfate	0.095	
50-29-34,4'-DDT	0.095	บ
72-43-5Methoxychlor	0.48	ן ט
53494-70-5Endrin ketone	0.095	U
7421-93-4Endrin aldehyde	0.095	U
5103-71-9alpha-Chlordane	0.048	បៃ
5103-74-2gamma-Chlordane	0.048	U
8001-35-2Toxaphene	4.8	
12674-11-2Aroclor-1016	0.95	บ
11104-28-2Aroclor-1221	1.9	U
11141-16-5Aroclor-1232	0.95	U
53469-21-9Aroclor-1242	0.95	
12672-29-6Aroclor-1248	0.95	
11097-69-1Aroclor-1254	0.95	U
11096-82-5Aroclor-1260	0.95	Ū

# 1 INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO.
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					,	<del></del>	
ab Name: COMP	UCHEM		Contract: II	LM04.0		1W24-09	
		se No.: 342	200_ SAS No.	_	<del></del> '	OG No.: 00	005
trix (soil/wa	_		_	<u>—</u> .	_	D: 945665	_
				_		_ , ,	
vel (low/med	): LOW_	<del></del>		Date R	eceive	ed: 06/16/	99
Solids:	0.	Ω					
JOIIAD.	_*.						
Cor	ncentration	Units (ug/	L or mg/kg dry	y weigh	t): UG	5/L	٠.
		, <u></u>	<del></del>	· · · · · · ·	<del></del> .	<u>-</u>	
	CAS No.	Analyte	Concentration		M		
	CAS NO.	Miaryce	CONCERCTACTOR	C Q.	111		
	7429-90-5	Aluminum	157	<del> </del>	$- _{\overline{P}} $		
	7440-36-0	Antimony	3.7		p-		
	7440-38-2	Arsenic	2.0		-  P-		
	7440-39-3	Barium	199		$ _{P}^{\perp}- $		•
	7440-41-7	Beryllium	0.18		P-	•	
	7440-43-9	Cadmium	0.84	l 1———	<sub>P</sub> -		
	7440-70-2	Calcium	110000		F-		
	7440-47-3	Chromium	5.1	<del>=</del>	F-	ı	
	7440-48-4	Cobalt	0.60		P-		
•	7440-50-8	Copper	2.9		<sup>F</sup> -		
	7439-89-6	Iron	4980		P-		
	7439-89-8	Lead	1.0		F-		
	7439-95-4	Magnesium	28700		P-		
	7439-96-5	Manganese	231		P-	_	
	7439-98-5	Mercury_	0.05			,	
	7440-02-0	Nickel	4.0		E V		
	7440-02-0	Potassium	1130		P-		
	7782-49-2	Selenium	3.1		P-		
	7440-22-4	Silver	0.30		P-		
	7440-22-4	Sodium Sodium	106000		<sub>P</sub>		
	7440-23-5		4.1	<del> </del>	P		
	7440-28-0	Vanadium	0.93	B	P-		
	7440-62-2	Zinc	1.5		P-	"	
	1440-00-0	Cyanide	8.1		$ _{CA}^{P} $	I	
					_ _		
lor Before:	COLORLESS	Clari	ty Before: CLE	AR_	Тез	kture: _	
lor After:	COLORLESS	Clari	ty After: CLE	AR_	Art	cifacts: _	
mments:							
mmeries.							

FORM I - IN

ILM04.0

Lab Name: COMPUCHEM Contract: OLM03-REVS MW28-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944516

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044516B57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

COMPOUND

CAS NO.

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kq) ug/L

74-87-3-----Chloromethane 10 U 74-83-9-----Bromomethane 10 U 75-01-4------Vinyl Chloride 10 U 75-00-3-----Chloroethane 10 U 75-09-2-----Methylene Chloride 8 J 67-64-1-----Acetone 4 JB 75-15-0-----Carbon Disulfide 10 U 75-35-4----1,1-Dichloroethene 10 U 75-34-3-----1,1-Dichloroethane 10 U 67-66-3-----Chloroform 10 U 107-06-2----1, 2-Dichloroethane 10 U 78-93-3----2-Butanone 10 U 71-55-6----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 U 75-27-4-----Bromodichloromethane 10 U 78-87-5----1,2-Dichloropropane 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6-----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2----Benzene 10 U 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2----Bromoform 10 U 108-10-1-----4-Methyl-2-Pentanone10 U 591-78-6----2-Hexanone 10 0 127-18-4-----Tetrachloroethene 10 U 79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene 10 U 100-41-4-----Ethylbenzene 2 J 100-42-5----Styrene 10 U 1330-20-7-----Xylene (Total) 2 J 540-59-0----1,2-Dichloroethene (total) 10 U

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: COMPUCHEM Contract: OLM03-REVS MW28-09

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944516

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID:

cn044516b57

Level: (low/med) LOW

Date Received: 06/10/99

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_(uL)

Soil Aliquot Volume: \_\_\_\_

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number TICs found: 19

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
24. 25.	HEXANE UNKNOWN UNKNOWN ALCOHOL CYCLOHEXANE, METHYL- OCTANE NONANE DECANE TRIMETHYLBENZENE UNKNOWN SUBSTITUTED BENZENE UNDECANE ETHYLDIMETHYLBENZENE ETHYLDIMETHYLBENZENE UNKNOWN TETRAMETHYLBENZENE UNKNOWN UNKNOWN DODECANE UNKNOWN	10.23 12.48 13.33 14.48 16.69 18.98 20.39 20.73 21.16 21.36 21.57 21.76 21.85 21.99 22.36 22.47 22.76 22.84 23.04	6 5 7 5 9 13 14 7 6 18 7 8 5 9 7 3 3	J J J

MW28-09

ab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944516

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ044516A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: decanted: (Y/N) Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

MW28-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944516

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ044516A64

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Extracted:06/11/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

25 T 10 T 10 T 10 T 25 T 25 T 10 T	U U U U U U U U U U U U U U U U U U U
25   10   10   10   10   10   10   10   1	U U U U U U U U U U U U U U U U U U U
10   10   10   10   10   10   10   10	บ บ บ บ บ บ
10   10   10   10   10   10   10   10	บ บ บ บ บ บ
10   10   10   10   10   10   10   10	U U U U U U
10   10   10   10   10   10   10   10	U U U U U
10   10   10   10   10   10   10   10	U U U U
25   1 25   1 10   1	U U U
25   10   10   10   10   10   10   10   1	U U
10   10   10   10   10   10   10   10	U
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FORM I SV-2

OLM03.

#### 1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW28-09

ab Name:	: COMPUCHEM			Contract:	: OLM03-REVS	
Lab Code:	: COMPU	Case No	o.: 34200	SAS No.	: SDG	No.: 00002
Matrix:	(soil/water)	WATER			Lab Sample ID:	944516
Sample wt	:/vol:	1000	(g/mL) ML		Lab File ID:	GJ044516A64
Level:	(low/med)	LOW	·		Date Received:	06/10/99
% Moistur	~e•	decant	red. (V/N)		Date Extracted	1.06/11/99

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 07/02/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
1 2	UNKNOWN (BC)	20.79	8	JВ ———
4. 5. 6.				
7. 8. 9.				
11. 12. 13.				
14 15 16.				 
17. 18. 19. 20.				
21. 22. 23.				
24. 25. 26.				
27. 28. 29. 30.				

MW28-09

Contract: OLM03-REVS Lab Name: COMPUCHEM Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002 Matrix: (soil/water) WATER Lab Sample ID: 944516 1040 (g/mL) ML Lab File ID: Sample wt/vol: Date Received: 06/10/99 % Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_\_ Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/12/99 Date Analyzed: 07/07/99 Concentrated Extract Volume: 10000(uL) Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0. 0.048 U 319-84-6-----alpha-BHC 319-85-7-----beta-BHC 0.048 U 319-86-8-----delta-BHC 0.048 U 58-89-9-----gamma-BHC (Lindane) 0.048 U 76-44-8------Heptachlor 0.048 U 0.048 U 309-00-2-----Aldrin 1024-57-3-----Heptachlor epoxide 959-98-8-----Endosulfan I 0.048 U 0.048 U 60-57-1-----Dieldrin 0.096 U 0.096 U 72-55-9-----4,4'-DDE 72-20-8-----Endrin 0.096 U 33213-65-9----Endosulfan II 0.096 U 72-54-8-----4,4'-DDD 0.096 U 0.096 U 1031-07-8-----Endosulfan sulfate 50-29-3----4,4'-DDT 0.096 U 72-43-5-----Methoxychlor 0.48 U 0.096 U 53494-70-5----Endrin ketone 0.096 U 0.0025 JP 7421-93-4-----Endrin aldehyde\_ 5103-71-9----alpha-Chlordane 5103-74-2----gamma-Chlordane\_ 0.048 U 4.8 U 8001-35-2-----Toxaphene 12674-11-2----Aroclor-1016 0.96 U 11104-28-2----Aroclor-1221 1.9 U 0.96 U 11141-16-5-----Aroclor-1232 53469-21-9-----Aroclor-1242 0.96 U 12672-29-6-----Aroclor-1248 0.96 U 0.96 U

FORM I PEST

11097-69-1----Aroclor-1254 11096-82-5----Aroclor-1260

OLM03.

0.96 lU

#### I INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO.
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Lab Name: COMPUCHEM_	Con	tract: ILM04.0	MW28-09
Lab Code: COMPU_	Case No.: 34200_	SAS No.:	SDG No.: 00002_
Matrix (soil/water):	WATER	Lab Sample	e ID: 944516
Level (low/med):	LOW	Date Recei	ived: 06/10/99
% Solids:	0.0		

Concentration Units (ug/L or mg/kg dry weight): UG/L\_\_\_\_

CAS No.	Analyte	Concentration	С	Q	М
7429-90-5	Aluminum	265	-	·	P
7440-36-0	Antimony	1.0	$\overline{\mathtt{U}}$		P-
7440-38-2	Arsenic -	1.4	U		$ P^- $
7440-39-3	Barium —	125	В		$ P^- $
7440-41-7	Beryllium	0.10	U		P-
7440-43-9	Cadmium	0.60	В		P_
7440-70-2	Calcium	83500			$ P^- $
7440-47-3	Chromium	32.9	_		P_
7440-48-4	Cobalt	3.1	B		P
7440-50-8	Copper	12.9	В		P
7439-89-6	Iron	2900			$ P^- $
7439-92-1	Lead	4.2	-		P
7439-95-4	Magnesium	40700	-		P
7439-96-5	Manganese	74.5	-		P
7439-97-6	Mercury	0.05	Ū		CV
7440-02-0	Nickel	26.0	В		P
7440-09-7	Potassium	1730	В	E	$ P^- $
7782-49-2	Selenium	1.6	U		$ P^- $
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	19100			P
7440-28-0	Thallium	2.1	Ū		$ P^- $
7440-62-2	Vanadium_	0.40	U		P_
7440-66-6	Zinc	4.6	В		$ P^- $
	Cyanide	4.7	U		CĀ
·			_		

Color Before	: COLORLESS	Clarity Before: CLEAR_	Texture:
Color After:	COLORLESS	Clarity After: CLEAR_	Artifacts:
Comments:			

FORM I - IN

### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

医感染物 医水体 化二氯甲酚 医二氯甲基酚

Soil Extract Volume: \_\_\_\_(uL)

EPA SAMPLE NO.

Soil Aliquot Volume: (uL

MW29-09

Lab Name: COMPUCHEM Contract: OLM03-REVS Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005 Matrix: (soil/water) WATER Lab Sample ID: 945668 Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045668A57 Level: (low/med) LOW Date Received: 06/16/99 % Moisture: not dec. Date Analyzed: 06/29/99 Dilution Factor: 1.0

GC Column: EQUITY624 ID: 0.53 (mm)

CONCENTRATION UNITS: (uq/L or uq/Kq) uq/L CAS NO. COMPOUND

CAS NO.	COMPOUND	(ug/L Of ug/	ng, ug, n		Q
74-87-3	Chloromethane			10	
	Bromomethane			10	
	Vinyl Chloride			10	
75-00-3	Chloroethane			10	
75-09-2	Methylene Chloride	9			J
67-64-1					J
	Carbon Disulfide			10	
	1,1-Dichloroethene		:		Ŭ
	1,1-Dichloroethane			10	
	Chloroform		•	10	
	1,2-Dichloroethane	2			Ŭ.
	2-Butanone				Ū
	1,1,1-Trichloroeth	nane			Ū
	Carbon Tetrachlori			10	
	Bromodichlorometha			10	
	1,2-Dichloropropar			10	
10061-01-5	cis-1,3-Dichloropı	ropene	,	10	
	Trichloroethene	-			U
	Dibromochlorometha	ane			Ū
	1,1,2-Trichloroeth				Ū
71-43-2			•	10	Ū
	trans-1,3-Dichloro	propene		10	
	Bromoform			10	
108-10-1	$4$ -Methyl- $\overline{2}$ -Pentano	one		10	
591-78-6	2-Hexanone			10	
127-18-4	Tetrachloroethene			10	
79-34-5	1,1,2,2-Tetrachlo	roethane		10	U.
108-88-3	Toluene			10	Ū
108-90-7	Chlorobenzene			10	U
100-41-4	Ethylbenzene		• .	10	
100-42-5		-	•	10	U
1330-20-7	Xylene (Total)			10	
540-59-0	1,2-Dichloroethen	e (total)		10	U
·					

FORM I VOA

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW29-09

b Name: COMPUCHEM	Contract: OLM03-REVS
Lab Code: COMPU Case No.: 34200	SAS No.: SDG No.: 00005
Matrix: (soil/water) WATER	Lab Sample ID: 945668
Sample wt/vol: 5.0 (g/mL) mL	Lab File ID: cn045668a57
Level: (low/med) LOW	Date Received: 06/16/99
% Moisture: not dec.	Date Analyzed: 06/29/99
GC Column: EQUITY624 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT =======	EST. CONC.	
1. 2. 3.				
5				
8				
10. 11. 12. 13.				
15				
18.				
21.				
23. 24. 25.				
26. 27. 28. 29.				
30				

MW29-09

Contract: OLM03-REVS Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Lab Sample ID: 945668 Matrix: (soil/water) WATER

Lab File ID: GH045668A66 1000 (g/mL) ML Sample wt/vol:

Date Received: 06/16/99 Level: (low/med) LOW

Date Extracted:06/17/99 % Moisture: \_\_\_ decanted: (Y/N)\_\_\_

Date Analyzed: 06/22/99 Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND

108-95-2Phenol 111-44-4bis (2-Chloroethyl) ether 95-57-82-Chlorophenol 541-73-11,3-Dichlorobenzene 106-46-71,4-Dichlorobenzene 95-50-11,2-Dichlorobenzene 95-48-72-Methylphenol 108-60-12,2'-oxybis (1-Chloropropane) 106-44-5		10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U
621-64-7Nitroso-di-n-propylamine_ 67-72-1Hexachloroethane_ 98-95-3Nitrobenzene		10 U 10 U 10 U
88-75-52-Nitrophenol 105-67-92,4-Dimethylphenol 111-91-1bis(2-Chloroethoxy)methane		10 U 10 U 10 U
120-82-11,2,4-Trichlorobenzene 91-20-3Naphthalene 106-47-84-Chloroaniline 87-68-3Hexachlorobutadiene	· ·	10 U 10 U 10 U 10 U
59-50-74-Chloro-3-methylphenol 91-57-62-Methylnaphthalene 77-47-4Hexachlorocyclopentadiene 88-06-22,4,6-Trichlorophenol		10 U 10 U 10 U
95-95-42,4,5-Trichlorophenol91-58-72-Chloronaphthalene88-74-42-Nitroaniline131-11-3Dimethylphthalate208-96-8Acenaphthylene		25 U 10 U 25 U 10 U 10 U
606-20-23-Nitrotoluene 99-09-2Acenaphthene		10 U 25 U 10 U

FORM I SV-1

MW29-09 Lab Name: COMPUCHEM Contract: OLM03-REVS ab Code: COMPU SAS No.: SDG No.: 00005 Case No.: 34200 Lab Sample ID: 945668 Matrix: (soil/water) WATER Lab File ID: Sample wt/vol: 1000 (q/mL) ML GH045668A66 Level: (low/med) LOW Date Received: 06/16/99 % Moisture: decanted: (Y/N) Date Extracted: 06/17/99 Date Analyzed: 06/22/99 Concentrated Extract Volume: 1000 (uL) Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 51-28-5-----2,4-Dinitrophenol 25 l 100-02-7----4-Nitrophenol 25 U 132-64-9-----Dibenzofuran 10 0 121-14-2----2,4-Dinitrotoluene\_ 10 U 84-66-2-----Diethylphthalate 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 10 U 100-01-6----4-Nitroaniline 25 U 534-52-1-----4,6-Dinitro-2-methylphenol 25 U 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3-----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 U 87-86-5----Pentachlorophenol 25 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8-----Carbazole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1-----3,37-Dichlorobenzidine 10 U 56-55-3-----Benzo(a) anthracene 10 U

FORM I SV-2

218-01-9-----Chrysene

117-81-7-----bis(2-Ethylhexyl)phthalate

117-84-0-----Di-n-octylphthalate

50-32-8-----Benzo (a) pyrene

205-99-2-----Benzo(b) fluoranthene

191-24-2----Benzo(q,h,i)perylene

207-08-9-----Benzo(k) fluoranthene

193-39-5----Indeno(1,2,3-cd)pyrene\_

53-70-3-----Dibenzo(a,h)anthracene

(1) - Cannot be separated from Diphenylamine

10 U

1 JB

10 U

10 LU

10 U

10 U

10 U

10 U

10 U

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW29-09

ьар	Name:	COMP	CHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200

SAS No.:

SDG No.: 00005

Matrix: (soil/water) WATER

Lab Sample ID: 945668

Sample wt/vol:

1000 (q/mL) ML

Lab File ID: GH045668A66

Level:

(low/med)

LOW

Date Received: 06/16/99

% Moisture:

decanted: (Y/N)

1000 (uL)

Date Extracted:06/17/99

Concentrated Extract Volume:

Date Analyzed: 06/22/99

Injection Volume:

2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 12

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 5. 6. 7. 8. 85-44-9 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27.	UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN PHTHALIC ANHYDRIDE UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN	<u> </u>	EST. CONC.  ===================================	=====
28. 29. 30.	·			

FORM I SV-TIC

Matrix: (soil/water) WATER

MW29-09

ab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Lab Sample ID: 945668 Sample wt/vol: 1020 (g/mL) ML Lab File ID:

% Moisture: \_\_\_\_ decanted: (Y/N) Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. (ug/L or ug/Kg) UG/L COMPOUND Q

		<del></del> ,
319-84-6alpha-BHC	0.049	ָּט
319-85-7beta-BHC	0.049	บ
319-86-8delta-BHC	0.0045	JР
58-89-9gamma-BHC (Lindane)	0.049	
76-44-8Heptachlor	0.049	
309-00-2Aldrin	0.049	
1024-57-3Heptachlor epoxide	0.049	
959-98-8Endosulfan I	0.049	-
60-57-1Dieldrin	0.098	
72-55-94,4'-DDE	0.098	-
72-20-8Endrin	0.098	-
33213-65-9Endosulfan II	0.098	
72-54-84,4'-DDD	0.098	
1031-07-8Endosulfan sulfate	0.098	Ŭ
50-29-34,4'-DDT	0.098	_
72-43-5	0.49	
53494-70-5Endrin ketone	0.098	
7421-93-4Endrin aldehyde	0.098	
5103-71-9alpha-Chlordane	0.049	
5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane	0.0018	
8001-35-2Toxaphene		
12674-11-2Aroclor-1016	4.9 0.98	
11104-28-2Aroclor-1221	2.0	ŭ
11141-16-5Aroclor-1232	0.98	
53469-21-9Aroclor-1242	0.98	
12672-29-6Aroclor-1248	0.98	_
11097-69-1Aroclor-1254	0.98	-
11096-82-5Aroclor-1260	0.98	Ŭ

# 1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

	•				
Lab Name: COMP	UCHEM		Contract: I	LM04.0	MW29-09
Lab Code: COMP	U_ Cas	se No.: 342	200_ SAS No.	:	SDG No.: 00005_
Matrix (spil/wa	ater): WATE	R	•	Lab Sampl	e ID: 945668
Level (low/med)	): LOW_	<del>-</del>		Date Rece	eived: 06/16/99
% Solids:	0.0				
Cor	ncentration	Units (ug,	/L or mg/kg dr	y weight):	UG/L
		Aluminum_	Concentration231	_	M P_
	7440-36-0	Antimony	60.2		P

7440-39-3 Barium 116 B P 0.29  $P^{-}$ Beryllium 7440-41-7 В 7440-43-9 Cadmium 0.60 B  $\mathbf{P}$ p<sup>-</sup> 7440-70-2 Calcium 85000 P 7440-47-3 Chromium 30.1 P  $\overline{B}$ Cobalt 7440-48-4 1.1 P. 7440-50-8 Copper 8.1 B P 7439-89-6 Iron 4430 Lead 1.0|0 P 7439-92-1 41700 P 7439-95-4 Magnesium  $P^{-}$ 7439-96-5 Manganese 66.7 0.05 | <del>U</del>  $C\overline{V}$ 7439-97-6 Mercury P\_ Nickel 51.0 7440-02-0 2760 B 7440-09-7 Potassium  $P^{-}$ Selenium 3.1 U ΡŪ 7782-49-2 ė¯ 7440-22-4 Silver 0.45 B

7440-38-2

7440-23-5

7440-28-0

7440-62-2

7440-66-6

Arsenic

Sodium

Zinc

Thallium

Vanadium

Cyanide

2.0 | 0

74800

4.1 U

4.7 U

1.2 B

5.6 B

P.

P\_ P

P

 $C\overline{A}$ 

Color Before: COLORLESS	Clarity Before: CLEAR_	Texture:
Color After: COLORLESS	Clarity After: CLEAR_	Artifacts:
Comments:		· · · · · · · · · · · · · · · · · · ·

FORM I - IN

ILM04.0

MW30-09
Lab Name: C^MPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945254

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR045254A57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_\_(uL

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L Q

74-87-3-----Chloromethane 10 U

74-87-3Chloromethane 74-83-9Bromomethane	10 10	U
75-01-4Vinyl Chloride		
75-00-3Chloroethane	10	
75-09-2Methylene Chloride	4	
67-64-1Acetone	3	J
75-15-0Carbon Disulfide	10	ן ש
75-35-41,1-Dichloroethene	10	ן ט
75-34-31,1-Dichloroethane	10	ן ט
67-66-3Chloroform	10	ן ט
107-06-21,2-Dichloroethane	10	ן ט
78-93-32-Butanone	10	ן די
71-55-61,1,1-Trichloroethane	10	U
56-23-5Carbon Tetrachloride	10	U
75-27-4Bromodichloromethane	10	U
78-87-51,2-Dichloropropane	10	U
10061-01-5cis-1,3-Dichloropropene	10	ן ח
79-01-6Trichloroethene	10	υ
124-48-1Dibromochloromethane	10	
79-00-51,1,2-Trichloroethane	10	
71-43-2Benzene	10	Ū
10061-02-6trans-1,3-Dichloropropene	10	lŭ l
75-25-2Bromoform	10	Ū
108-10-14-Methyl-2-Pentanone	10	lŭ l
591-78-62-Hexanone	10	1 - 1
127-18-4Tetrachloroethene	10	lŭ l
79-34-51,1,2,2-Tetrachloroethane	10	บี
108-88-3Toluene	10	
108-90-7Chlorobenzene	10	1
100-41-4Ethylbenzene	10	1 '
100-41-4	10	
1330-20-7Xylene (Total)	10	
540-59-01,2-Dichloroethene (total)	I .	lu l
1 Jan - Jan - Jan - 1, 2 - Dichiolog Chene (Cocal)	1.0	1

### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

MW30-09	
	h

Lab Name: COMPUCHEM Contract: OLM03-REVS Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005 Matrix: (soil/water) WATER Lab Sample ID: 945254 Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cr045254a57 Level: (low/med) LOW Date Received: 06/12/99 Date Analyzed: 06/24/99 % Moisture: not dec. GC Column: EQUITY624 ID: 0.53 Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: \_\_\_\_ (uL

CONCENTRATION UNITS: (ua/L or ua/Ka) ua/L

E RT	EST. CONC.	Q
	· ———	
<del></del>		

FORM I VOA-TIC

OLM03

MW30-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Lab Sample ID: 945254 Matrix: (soil/water) WATER

1000 (q/mL) ML Lab File ID: GH045254B70 Sample wt/vol:

Date Received: 06/12/99 Level: (low/med) LOW

decanted: (Y/N) Date Extracted:06/16/99 % Moisture:

1000 (uL) Concentrated Extract Volume: Date Analyzed: 07/07/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

pH: \_\_\_

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND 0

108-95-2----Phenol 10 U 111-44-4-----bis(2-Chloroethyl)ether 10 U 95-57-8-----2-Chlorophenol 10 U 541-73-1-----1,3-Dichlorobenzene 106-46-7-----1,4-Dichlorobenzene 95-50-1-----1,2-Dichlorobenzene 10 U 10 U 10 U 10 0 95-48-7----2-Methylphenol 108-60-1-----2,2'-oxybis(1-Chloropropane) 10 U 106-44-5-----4-Methylphenol 10 U 621-64-7----N-Nitroso-di-n-propylamine 10 U 67-72-1------Hexachloroethane 10 U 98-95-3-----Nitrobenzene 10 U 78-59-1-----Isophorone 10 U 88-75-5----2-Nitrophenol 10 U 105-67-9-----2,4-Dimethylphenol 10 U 111-91-1-----bis(2-Chloroethoxy) methane 10 U 120-83-2----2,4-Dichlorophenol 10 U 120-82-1----1,2,4-Trichlorobenzene 10 U 91-20-3-----Naphthalene 10 U 106-47-8-----4-Chloroaniline 10 U 87-68-3-----Hexachlorobutadiene 10 U 59-50-7----4-Chloro-3-methylphenol 10 U 91-57-6----2-Methylnaphthalene 10 U 77-47-4-----Hexachlorocyclopentadiene 10 U 88-06-2----2,4,6-Trichlorophenol 10 U 95-95-4-----2,4,5-Trichlorophenol 25 U 91-58-7----2-Chloronaphthalene 10 U 88-74-4----2-Nitroaniline 25 U 131-11-3-----Dimethylphthalate 10 U 208-96-8-----Acenaphthylene 10 U 606-20-2----2,6-Dinitrotoluene 10 U 99-09-2----3-Nitroaniline 25 U 83-32-9-----Acenaphthene 10 U

FORM I SV-1

MW30-09 Contract: OLM03-REVS Lab Name: COMPUCHEM SDG No.: 00005 Case No.: 34200 SAS No.: Lab Code: COMPU Lab Sample ID: 945254 Matrix: (soil/water) WATER Lab File ID: GH045254B70 1000 (q/mL) ML Sample wt/vol: Date Received: 06/12/99 Level: (low/med) LOW decanted: (Y/N) Date Extracted:06/16/99 % Moisture: Date Analyzed: 07/07/99 Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0 Injection Volume: 2.0(uL) GPC Cleanup: (Y/N) N pH: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

121-14-22,4-Dinitrotoluene 84-66-2Diethylphthalate 7005-72-34-Chlorophenyl-phenylether 86-73-7Fluorene 100-01-64-Nitroaniline 534-52-14,6-Dinitro-2-methylphenol 86-30-6N-nitrosodiphenylamine (1) 101-55-34-Bromophenyl-phenylether 118-74-1Hexachlorophenol 85-01-8Phenanthrene 120-12-7Anthracene 86-74-8Carbazole 84-74-2	10 10 10 10 25 25 10 10 10 10 10 10 10 10 10 10 10 10 10	מממממממממממממממממממממ
50-32-8Benzo(a)pyrene	_  10	U U U

FORM I SV-2

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

1000 (g/mL) ML

EPA SAMPLE NO.

MW30-09

Lab File ID: GH045254B70

ab	Name:	COMPUCHEM				Contract:	OLM03-REVS	<u> </u>		
$_{ m ab}$	Code:	COMPU	Case	No.:	34200	SAS No.:	SDG	No.:	00005	

Matrix: (soil/water) WATER Lab Sample ID: 945254

Date Received: 06/12/99 Level: (low/med) LOW

% Moisture: \_\_\_ decanted: (Y/N)\_\_\_\_ Date Extracted:06/16/99

1000 (uL)

Date Analyzed: 07/07/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL) pH: \_\_\_\_

Number TICs found: 5

GPC Cleanup: (Y/N) N

Concentrated Extract Volume:

Sample wt/vol:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 10544-50-0 5.	UNKNOWN UNKNOWN UNKNOWN SULFUR, MOL. (S8) UNKNOWN	6.39 6.53 12.97 13.79 17.60	60 2 2 3 2	J J J NJ J
8. 9. 10. 11. 12. 13.				
14. 15. 16. 17. 18. 19.				
22. 23. 24.				
26. 27. 28. 29.				

FORM I SV-TIC

OLM03.0

· 化乙烯基基化亚磺酸

#### 1D PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW30-09

Lab Name: COMPUCHEM Contract: OLM03-REVS SDG No.: 00005 Lab Code: COMPU Case No.: 34200 SAS No.: Matrix: (soil/water) WATER Lab Sample ID: 945254 Sample wt/vol: 1060 (g/mL) ML Lab File ID: % Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_ Date Received: 06/12/99 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99 Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L . 0 0.047 U 319-84-6-----alpha-BHC 319-85-7-----beta-BHC 0.047 U 319-86-8-----delta-BHC 0.047 U 58-89-9-----gamma-BHC (Lindane) 0.047 U 0.047 U 309-00-2-----Aldrin 0.047 U 1024-57-3-----Heptachlor epoxide 0.047 U 959-98-8-----Endosulfan I 0.047 U 60-57-1-----Dieldrin 0.094 U 72-55-9-----4,4'-DDE 0.094 U 72-20-8-----Endrin 0.094 U

33213-65-9----Endosulfan II 0.094 U 72-54-8-----4,4'-DDD 0.094 U 1031-07-8-----Endosulfan sulfate 0.094 U 50-29-3-----4,4'-DDT 0.094 U 0.0066 JP 72-43-5-----Methoxychlor 53494-70-5----Endrin ketone 0.094 U 7421-93-4-----Endrin aldehyde 0.094 U 5103-71-9-----alpha-Chlordane 0.047 U 5103-74-2-----gamma-Chlordane 0.047 U 8001-35-2----Toxaphene 4.7 U 12674-11-2----Aroclor-1016 0.94 U 11104-28-2----Aroclor-1221 1.9 U 11141-16-5-----Aroclor-1232 0.94 U 53469-21-9-----Aroclor-1242 0.94 U 12672-29-6----Aroclor-1248 0.94 U 11097-69-1-----Aroclor-1254 0.94 U 11096-82-5----Aroclor-1260 0.94 U

### 1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

		INORGANIC A	ANALYSES DATA S	SHEET	
Lab Name: COME	PUCHEM		Contract: II	LM04.0	MW30-09
Lab Code: COMI	PU_ Ca	se No.: 342	200_ SAS No.	:	SDG No.: 00005_
Matrix (soil/w	water): WATE	R		Lab Samp	le ID: 945254
Level (low/med	d): LOW_	<u>.</u>		Date Rec	eived: 06/12/99
% Solids:	0.	0			
Cc	oncentration	Units (ug,	/L or mg/kg dry	y weight)	: UG/L
	CAS No.	Analyte	Concentration	C Q	M
	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-96-5 7439-96-5 7439-96-5 7439-97-6 7440-02-0 7440-02-0 7440-23-5 7440-23-5 7440-28-0 7440-66-6	l .	0.56 89400 3.9 5.3 4.4 1600 1.0 47100 59.9 0.05	B B B B D D D D D D D D D D D D D D D D	P
Color Before:	COLORLESS	Clari	ty Before: CLE	AR_	Texture:
Color After:	COLORLESS	Clari	ty After: CLE	AR_	Artifacts:
Comments:					

FORM I - IN

ILM04.0

ACSGWMW31-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944686

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID:

CN044686A57

Level: (low/med) LOW

Date Received: 06/11/99

% Moisture: not dec.

Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

(uL)

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume:

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

		<del>,</del>
74-87-3Chloromethane	10	U
74-83-9Bromomethane		ן ט
75-01-4Vinyl Chloride	10	ט
75-00-3Chloroethane	10	ט . '
75-09-2Methylene Chloride	2	J
67-64-1Acetone		JB
75-15-0Carbon Disulfide	10	U
75-35-41,1-Dichloroethene	<u> </u>	U
75-34-31,1-Dichloroethane	10	ט
67-66-3Chloroform	10	U
107-06-21,2-Dichloroethane		U
78-93-32-Butanone	10	∖U
71-55-61,1,1-Trichloroethane		U
56-23-5Carbon Tetrachloride	10	U
75-27-4Bromodichloromethane	10	U
78-87-51,2-Dichloropropane		שׁ
10061-01-5cis-1,3-Dichloropropene	10	U
79-01-6Trichloroethene	10	U
124-48-1Dibromochloromethane	10	U
79-00-51,1,2-Trichloroethane	10	U
71-43-2Benzene	<u> </u>	U
10061-02-6trans-1,3-Dichloropropene	10	ប
75-25-2Bromoform		ប
108-10-14-Methyl-2-Pentanone	10	U
591-78-62-Hexanone	10	U
127-18-4Tetrachloroethene		U
79-34-51,1,2,2-Tetrachloroethane	10	U U
108-88-3Toluene		U
108-90-7Chlorobenzene		U
100-41-4Ethylbenzene	10	<b>υ</b>
100-42-5Styrene		Ū
1330-20-7Xylene (Total)		<b>υ</b>  υ
540-59-01,2-Dichloroethene (total)	10	) U '
<u> </u>		.

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

ACSGWMW31-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944686

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: cn044686a57

Level: (low/med) LOW

Date Received: 06/11/99

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_(uL)

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

		r		
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
EEEEEEEEEEEE			======================================	
			[	
1				
2				
J			<del></del> -	
7.		<del></del>		
J				
· ·				
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°.———				
9				
10				
11.				
14.				
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### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACSGWMW31-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944686

1000 (g/mL) ML Lab File ID: GH044686A70 Sample wt/vol:

Date Received: 06/11/99 LOW Level: (low/med)

% Moisture: decanted: (Y/N)\_\_\_ Date Extracted:06/14/99

Date Analyzed: 07/20/99 Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH:

> CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) UG/L CAS NO. Q

108-95-2Phenol		10 U	Ì
111-44-4bis(2-Chloroethyl)ether		10 0	- {
95-57-82-Chlorophenol		10 0	
541-73-11,3-Dichlorobenzene		10 U	ĺ
106-46-71,4-Dichlorobenzene	•	10 0	
95-50-11,2-Dichlorobenzene		10 0	
95-48-72-Methylphenol		10 0	
108-60-12,2'-oxybis(1-Chloropropane)		10 0	
106-44-54-Methylphenol		10 0	
621-64-7N-Nitroso-di-n-propylamine_		10 U	1
67-72-1Hexachloroethane		10 0	
98-95-3Nitrobenzene		10 U	
78-59-1Isophorone		10 U	ļ
88-75-52-Nitrophenol	•	10 U	
105-67-92,4-Dimethylphenol		10 0	
111-91-1bis (2-Chloroethoxy) methane		10 0	
120-83-22,4-Dichlorophenol		10 0	.
120-83-22,4-Dichiolophenol			ł
91-20-3Naphthalene		10 U 10 U	
106-47-84-Chloroaniline		10 0	
87-68-3Hexachlorobutadiene		10 0	- 1
59-50-74-Chloro-3-methylphenol	,	10 U	
91-57-62-Methylnaphthalene		10 0	
77-47-4Hexachlorocyclopentadiene		10 0	
88-06-22,4,6-Trichlorophenol		10 0	
95-95-42,4,5-Trichlorophenol		25 U	
91-58-72-Chloronaphthalene	. '	10 U	•
88-74-42-Nitroaniline		25 U	
131-11-3Dimethylphthalate		10 0	
208-96-8Acenaphthylene		10 0	
606-20-22,6-Dinitrotoluene		10 0	
99-09-23-Nitroaniline		25 U	
83-32-9Acenaphthene		10 0	
Nechaphenene		1010	
	l		_

FORM I SV-1

OLM03.

ACSGWMW31-09

(ug/L or ug/Kg) UG/L

Lab Name: COMPUCHEM Contract: OLM03-REVS

SDG No.: 00002 Case No.: 34200 SAS No.: ab Code: COMPU

Matrix: (soil/water) WATER Lab Sample ID: 944686

1000 (g/mL) ML Lab File ID: GH044686A70 Sample wt/vol:

Level: (low/med) LOW Date Received: 06/11/99

Date Extracted: 06/14/99 decanted: (Y/N) % Moisture:

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS:

COMPOUND

CAS NO. 51-28-5-----2,4-Dinitrophenol 100-02-7----4-Nitrophenol 25 U :10 ប 132-64-9-----Dibenzofuran\_ 121-14-2----2,4-Dinitrotoluene 84-66-2----Diethylphthalate 10 U 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 10 25 U 25 U 10 U 101-55-3-----4-Bromophenyl-phenylether 10 U 118-74-1------Hexachlorobenzene 10 U 87-86-5-----Pentachlorophenol 25 U 85-01-8-----Phenanthrene 10 ΙŪ 120-12-7-----Anthracene 10 U 86-74-8-----Carbazole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 91-94-1-----3,3'-Dichlorobenzidine 10 U 10 U 56-55-3-----Benzo(a)anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 10 U 117-84-0-----Di-n-octylphthalate 10 U 205-99-2-----Benzo (b) fluoranthene -10 U 207-08-9-----Benzo(k) fluoranthene 10 U 50-32-8-----Benzo(a)pyrene 10 U 193-39-5-----Indeno(1,2,3-cd)pyrene 10 0 53-70-3-----Dibenzo(a,h)anthracene 10 U 191-24-2-----Benzo(q,h,i)perylene 10 U (1) - Cannot be separated from Diphenylamine

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

ACSGWMW31-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944686

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044686A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: decanted: (Y/N) Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

CONCENTRATION UNITS: Number TICs found: 29 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.	UNKNOWN UNKNOWN	6.89 7.16 7.23 7.28 7.43 7.69 8.38 8.55 8.77 9.76 10.02 10.22 10.29 10.34 10.47 10.51 10.51 11.84 12.23 12.37 12.60 14.02 18.45 19.39 21.88	18 38 12 170 5 7 36 7 42 120 63 22 18 12 57 110 14 12 15 17 18 9 20 38	# # # # # # # # # # # # # # # # # # #

FORM I SV-TIC

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

1050 (g/mL) ML

Sample wt/vol:

EPA SAMPLE NO.

ACSGWMW31-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab File ID:

o Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944686

% Moisture: decanted: (Y/N)\_\_\_ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/15/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N Sulfur Cleanup: (Y/N) N pH: \_\_\_\_

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

·		
319-84-6alpha-BHC	0.048	IT
319-85-7beta-BHC	0.014	
319-86-8delta-BHC	0.0013	
58-89-9gamma-BHC (Lindane)	0.048	1
76-44-8Heptachlor	0.048	
309-00-2Aldrin	0.048	
1024-57-3Heptachlor epoxide	0.048	
959-98-8Endosulfan I	0.048	
60-57-1Dieldrin	0.046	-
72-55-94,4'-DDE	0.095	
72-20-8Endrin	0.095	
33213-65-9Endosulfan II	0.095	
72-54-84,4'-DDD	0.095	
1031-07-8Endosulfan sulfate	0.095	
50-29-34,4'-DDT	0.095	1
72-43-5Methoxychlor	0.48	_
53494-70-5Endrin ketone	0.095	
7421-93-4Endrin aldehyde	0.095	U
5103-71-9alpha-Chlordane	0.048	ט
5103-74-2gamma-Chlordane	0.048	ט
8001-35-2Toxaphene	4.8	ש
12674-11-2Aroclor-1016	0.95	lυ
11104-28-2Aroclor-1221	1.9	1
11141-16-5Aroclor-1232	0.95	_
53469-21-9Aroclor-1242	0.95	
12672-29-6Aroclor-1248	0.95	
11097-69-1Aroclor-1254	0.95	
11096-82-5Aroclor-1260	0.95	Ü
ALOCIOI 1200		
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# 1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Table Code: COMPU_ Case No.: 34200_ SAS No.: SDG No.: 000  Tatrix (soil/water): WATER Lab Sample ID: 944686  Tatrix (soil/water): LOW_ Date Received: 06/11/9  Tatrix (soil/water): LOW_ Date Received: 06/11/9  Tatrix (soil/water): LOW_ Date Received: 06/11/9  Tatrix (soil/water): WATER Lab Sample ID: 944686  Tatrix (soil/water): WATER Lab Sample ID: 944686  Tatrix (soil/water): WATER Lab Sample ID: 944686  Tatrix (soil/water): WATER Lab Sample ID: 944686  Tatrix (soil/water): WATER Lab Sample ID: 944686  Tatrix (soil/water): WATER Lab Sample ID: 944686  Tatrix (soil/water): WATER Lab Sample ID: 944686  Tatrix (soil/water): WATER Lab Sample ID: 944686  Tatrix (soil/water): WATER Lab Sample ID: 944686  Tatrix (soil/water): WATER Lab Sample ID: 944686  Tatrix (soil/water): WATER Lab Sample ID: 944686  Tatrix (soil/water): WATER Lab Sample ID: 944686  Tatrix (soil/water): WATER Lab Sample ID: 944686  Tatrix (soil/water): WATER Lab Sample ID: 944686  Tatrix (soil/water): WATER Lab Sample ID: 944686  Tatrix (soil/water): 9	o Name: COMPI	JCHEM		Contract: II	LM04.0	ACSGWMW31	09
Cas No.	Code: COMP	J_ Cas	se No.: 342	200_ SAS No.	:	SDG No.: 0	0002
Concentration Units (ug/L or mg/kg dry weight): UG/L	rix (soil/wa	ater): WATE	R		Lab Samp	le ID: 94468	16
Cas No.	rel (low/med)	LOW_	_		Date Rec	eived: 06/11	./99
CAS No.         Analyte         Concentration         C         Q         M           7429-90-5         Aluminum         34.5         B         P           7440-36-0         Antimony         1.0         U         P           7440-38-2         Arsenic         3.5         B         P           7440-39-3         Barium         272         P           7440-41-7         Beryllium         0.10         U         P           7440-43-9         Cadmium         0.53         B         P           7440-47-3         Chromium         8.0         B         P           7440-48-4         Cobalt         1.4         B         P           7440-50-8         Copper         15.0         B         P           7439-89-6         Iron         2900         P         P           7439-95-4         Magnesium         35600         P         P           7439-97-6         Mercury         0.05         U         CV           7440-02-0         Nickel         8.2         B         P           7440-02-7         Potassium         1480         B         E         P           7440-22-4         Seleniu	Solids:	0.0	0				-
T429-90-5	Cor	ncentration	Units (ug	/L or mg/kg dry	y weight)	: UG/L	
T429-90-5		CAS NO	Analyte	Concentration		M	
7440-36-0       Antimony       1.0       U       P         7440-38-2       Arsenic       3.5       B       P         7440-39-3       Barium       272       P         7440-41-7       Beryllium       0.10       U       P         7440-43-9       Cadmium       0.53       B       P         7440-47-3       Chromium       8.0       B       P         7440-48-4       Cobalt       1.4       B       P         7439-89-6       Copper       15.0       B       P         7439-92-1       Lead       2.6       B       P         7439-95-4       Magnesium       35600       P         7439-97-6       Mercury       0.05       U       CV         7440-02-0       Nickel       8.2       B       P         7440-09-7       Potassium       1480       B       E       P         7782-49-2       Selenium       1.6       U       P         7440-22-4       Silver       0.40       U       P		CAS NO.	Anatyce	Concentracion			
7440-38-2       Arsenic       3.5       B       P         7440-39-3       Barium       272       P         7440-41-7       Beryllium       0.10       U       P         7440-43-9       Cadmium       0.53       B       P         7440-47-3       Chromium       88200       P         7440-48-4       Cobalt       1.4       B       P         7439-89-6       Iron       2900       P         7439-92-1       Lead       2.6       B       P         7439-95-4       Magnesium       35600       P         7439-97-6       Mercury       0.05       U       CV         7440-02-0       Nickel       8.2       B       P         7782-49-2       Selenium       1.6       U       P         7440-22-4       Silver       0.40       U       P		7429-90-5	Aluminum_	34.5	B	P_	
7440-38-2       Arsenic       3.5       B       P         7440-39-3       Barium       272       P         7440-41-7       Beryllium       0.10       D         7440-43-9       Cadmium       0.53       B       P         7440-47-3       Chromium       88200       P         7440-48-4       Cobalt       1.4       B       P         7439-89-6       Copper       15.0       B       P         7439-92-1       Lead       2.6       B       P         7439-95-4       Magnesium       35600       P         7439-97-6       Mercury       0.05       U       CV         7440-02-0       Nickel       8.2       B       P         7440-09-7       Potassium       1480       B       E       P         7782-49-2       Selenium       1.6       U       P         7440-22-4       Silver       0.40       U       P		1				P	
7440-41-7       Beryllium       0.10       U       P         7440-43-9       Cadmium       0.53       B       P         7440-70-2       Calcium       88200       P         7440-47-3       Chromium       8.0       B       P         7440-48-4       Cobalt       1.4       B       P         7439-89-6       Copper       15.0       B       P         7439-92-1       Lead       2.6       B       P         7439-95-4       Magnesium       35600       P         7439-96-5       Manganese       89.2       P         7440-02-0       Nickel       8.2       B       P         7440-02-0       Potassium       1480       B       E       P         7782-49-2       Selenium       1.6       U       P         7440-22-4       Silver       0.40       U       P	.*					P	
7440-43-9       Cadmium       0.53       B       P         7440-70-2       Calcium       88200       P         7440-47-3       Chromium       8.0       B       P         7440-48-4       Cobalt       1.4       B       P         7439-89-6       Copper       15.0       B       P         7439-92-1       Lead       2.6       B       P         7439-95-4       Magnesium       35600       P         7439-96-5       Manganese       89.2       P         7440-02-0       Nickel       8.2       B       P         7440-02-0       Nickel       8.2       B       P         7782-49-2       Selenium       1.6       U       P         7440-22-4       Silver       0.40       U       P						P_	
7440-70-2       Calcium       88200       P         7440-47-3       Chromium       8.0       B       P         7440-48-4       Cobalt       1.4       B       P         7440-50-8       Copper       15.0       B       P         7439-89-6       Iron       2900       P         7439-92-1       Lead       2.6       B       P         7439-95-4       Magnesium       35600       P         7439-96-5       Manganese       89.2       P         7440-02-0       Nickel       8.2       B       P         7440-09-7       Potassium       1480       B       E       P         7782-49-2       Selenium       1.6       U       P         7440-22-4       Silver       0.40       U       P				0.10	U		
7440-47-3       Chromium       8.0 B       P         7440-48-4       Cobalt       1.4 B       P         7440-50-8       Copper       15.0 B       P         7439-89-6       Iron       2900 P       P         7439-92-1       Lead       2.6 B       P         7439-95-4       Magnesium       35600 P       P         7439-97-6       Mercury       0.05 U       CV         7440-02-0       Nickel       8.2 B       P         7782-49-2       Selenium       1.6 U       P         7440-22-4       Silver       0.40 U       P		7440-43-9		0.53	В	P_	
7440-48-4       Cobalt       1.4       B       P         7440-50-8       Copper       15.0       B       P         7439-89-6       Iron       2900       P         7439-92-1       Lead       2.6       B       P         7439-95-4       Magnesium       35600       P         7439-96-5       Manganese       89.2       P         7440-02-0       Nickel       8.2       B       P         7440-09-7       Potassium       1480       B       E       P         7782-49-2       Selenium       1.6       U       P         7440-22-4       Silver       0.40       U       P		7440-70-2	Calcium				
7440-50-8       Copper       15.0       B       P         7439-89-6       Iron       2900       P         7439-92-1       Lead       2.6       B       P         7439-95-4       Magnesium       35600       P         7439-96-5       Manganese       89.2       P         7440-02-0       Nickel       8.2       B       P         7440-09-7       Potassium       1480       B       E       P         7782-49-2       Selenium       1.6       U       P         7440-22-4       Silver       0.40       U       P		7440-47-3	Chromium_	8.0	B		
7439-89-6   Iron		7440-48-4	Cobalt	1.4	B	P_	
7439-92-1       Lead       2.6       B       P         7439-95-4       Magnesium       35600       P         7439-96-5       Manganese       89.2       P         7439-97-6       Mercury       0.05       U       CV         7440-02-0       Nickel       8.2       B       P         7440-09-7       Potassium       1480       B       E       P         7782-49-2       Selenium       1.6       U       P         7440-22-4       Silver       0.40       U       P		7440-50-8	Copper	15.0	В		
7439-95-4 Magnesium 35600 P P P P P P P P P P P P P P P P P P		7439-89-6	Iron	2900			
7439-96-5     Manganese     89.2     P       7439-97-6     Mercury     0.05     U       7440-02-0     Nickel     8.2     B       7440-09-7     Potassium     1480     B     E     P       7782-49-2     Selenium     1.6     U     P       7440-22-4     Silver     0.40     U     P		7439-92-1	Lead				
7439-97-6 Mercury 0.05 U CV 7440-02-0 Nickel 8.2 B P 7440-09-7 Potassium 1480 B E P 7782-49-2 Selenium 1.6 U P 7440-22-4 Silver 0.40 U P		7439-95-4	Magnesium	35600			
7440-02-0 Nickel 8.2 B P P P P P P P P P P P P P P P P P P	•	7439-96-5	Manganese				
7440-09-7 Potassium 1480 B E P P 7782-49-2 Selenium 1.6 U P P P P P P P P P P P P P P P P P P		7439-97-6	Mercury	0.05	<u></u>	CV	
7782-49-2   Selenium						P_	
7440-22-4   Silver 0.40 U P		7440-09-7	Potassium	1480	BE		
			_				
		7440-23-5	Sodium	21700		P_	
7440-28-0   Thallium   2.1   U   P							
7440-62-2   Vanadium _   0.40   U _ P	*.	I h	_			-   -	
7440-66-6   Zinc 1.3   B   P		7440-66-6				· I — I	
Cyanide4.7   U   CA			Cyanide	4.7	<sup>U</sup>	CA	
olor Before: COLORLESS Clarity Before: CLEAR_ Texture:	lor Before:	COLORLESS	Clari	ty Before: CLE	AR_	Texture:	
olor After: COLORLESS Clarity After: CLEAR Artifacts:	lor After:	COLORLESS	Clari	ty After: CLE	AR	Artifacts:	
comments:				•	_ ·		

FORM I - IN

ILM04.0

#### LA VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: COMPUCHEM Contract: OLM03-REVS

ACSGWMW32-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944685

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044685A57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

	(45, = 3= 45,	5. 5.	~
74-97-3	Chloromethane	10	IT
	Bromomethane	10	
	Vinyl Chloride	10	
	Chloroethane	10	I I
	Methylene Chloride	2	
67-64-1			Jв
	Carbon Disulfide	10	
	1,1-Dichloroethene	10	1 1
	1,1-Dichloroethane	10	1
67-66-3		10	1
	1,2-Dichloroethane	10	
78-93-3		10	1
	1,1,1-Trichloroethane	10	1
	Carbon Tetrachloride	10	
	Bromodichloromethane	10	1 1
	1, 2-Dichloropropane	10	
	cis-1,3-Dichloropropene	10	1
79-01-6	Trichloroethene	10	
	Dibromochloromethane	10	1 1
	1,1,2-Trichloroethane	10	
71-43-2		10	1 1
	trans-1,3-Dichloropropene	10	1 -
75-25-2		10	1 1
	4-Methyl-2-Pentanone	10	
	2-Hexanone	10	1 1
	Tetrachloroethene	10	1 -
	1,1,2,2-Tetrachloroethane	10	1 -
108-88-3		10	1 1
	Chlorobenzene	10	1
	Ethylbenzene	10	1 -
100-41-4		10	
	Xylene (Total)	10	1
1330-20-7	1,2-Dichloroethene (total)	10	
340-39-0	1,2-Dichioroechene (cocal)		ا
l		l	l <u></u> _

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW32-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944685

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID:

cn044685a57

Level:

(low/med)

Date Received: 06/11/99

LOW

Lab Code: COMPU Case No.: 34200 SAS No.:

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1				
4.				
6				
7. 8. 9.				
11.				
13				
16.				
17. 18. 19.				
20				
23.				
24. 25. 26.				
27. 28.				
29.				

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

ACSGWMW32-09MS

SDG No.: 00002

Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mL) mL

Lab Sample ID: 944470 Lab File ID: CN044470B57

Level: (low/med) LOW

Date Received: 06/11/99

% Moisture: not dec. \_\_\_\_

Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_(uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L

74-87-3Chloromethane       10 U         74-83-9Bromomethane       10 U         75-01-4Vinyl Chloride       10 U         75-00-3Chloroethane       10 U         75-09-2Methylene Chloride       2 J         67-64-1Acetone       10 U         75-15-0Carbon Disulfide       10 U         75-34-31,1-Dichloroethene       49         75-34-31,1-Dichloroethane       10 U         67-66-3Chloroform       10 U         107-06-21,2-Dichloroethane       10 U         78-93-32-Butanone       10 U         71-55-61,1,1-Trichloroethane       10 U         75-27-4Bromodichloromethane       10 U         78-87-51,2-Dichloropropane       10 U         10061-01-5cis-1,3-Dichloropropene       10 U         79-01-6Trichloroethene       48         124-48-1Dibromochloromethane       10 U         79-00-51,1,2-Trichloroethane       10 U	
74-83-9	
75-01-4Vinyl Chloride       10 U         75-00-3Chloroethane       10 U         75-09-2Methylene Chloride       2 J         67-64-1Acetone       10 U         75-15-0Carbon Disulfide       10 U         75-35-4Carbon Disulfide       10 U         75-34-3	
75-00-3Chloroethane       10 U         75-09-2Methylene Chloride       2 J         67-64-1Acetone       10 U         75-15-0Carbon Disulfide       10 U         75-35-41,1-Dichloroethene       49         75-34-31,1-Dichloroethane       10 U         67-66-3	
75-09-2	
67-64-1	
75-15-0	
75-35-41,1-Dichloroethene       49         75-34-31,1-Dichloroethane       10         67-66-3Chloroform       10         107-06-21,2-Dichloroethane       10         78-93-32-Butanone       10         71-55-61,1,1-Trichloroethane       10         56-23-5Carbon Tetrachloride       10         75-27-4Bromodichloromethane       10         78-87-51,2-Dichloropropane       10         10061-01-5cis-1,3-Dichloropropene       10         79-01-6Trichloroethene       48         124-48-1Dibromochloromethane       10         79-00-51,1,2-Trichloroethane       10	
75-34-31,1-Dichloroethane       10       U         67-66-3Chloroform       10       U         107-06-21,2-Dichloroethane       10       U         78-93-32-Butanone       10       U         71-55-61,1,1-Trichloroethane       10       U         56-23-5Carbon Tetrachloride       10       U         75-27-4Bromodichloromethane       10       U         78-87-51,2-Dichloropropane       10       U         10061-01-5cis-1,3-Dichloropropene       10       U         79-01-6Trichloroethene       48       U         124-48-1Dibromochloromethane       10       U         79-00-51,1,2-Trichloroethane       10       U	
67-66-3	-
78-93-32-Butanone       10 U         71-55-61,1,1-Trichloroethane       10 U         56-23-5Carbon Tetrachloride       10 U         75-27-4Bromodichloromethane       10 U         78-87-51,2-Dichloropropane       10 U         10061-01-5cis-1,3-Dichloropropene       10 U         79-01-6Trichloroethene       48         124-48-1Dibromochloromethane       10 U         79-00-51,1,2-Trichloroethane       10 U	
71-55-61,1,1-Trichloroethane       10 U         56-23-5Carbon Tetrachloride       10 U         75-27-4Bromodichloromethane       10 U         78-87-51,2-Dichloropropane       10 U         10061-01-5cis-1,3-Dichloropropene       10 U         79-01-6Trichloroethene       48         124-48-1Dibromochloromethane       10 U         79-00-51,1,2-Trichloroethane       10 U	
56-23-5Carbon Tetrachloride       10 U         75-27-4Bromodichloromethane       10 U         78-87-51,2-Dichloropropane       10 U         10061-01-5cis-1,3-Dichloropropene       10 U         79-01-6Trichloroethene       48         124-48-1Dibromochloromethane       10 U         79-00-51,1,2-Trichloroethane       10 U	
75-27-4Bromodichloromethane       10 U         78-87-51, 2-Dichloropropane       10 U         10061-01-5cis-1, 3-Dichloropropene       10 U         79-01-6Trichloroethene       48         124-48-1Dibromochloromethane       10 U         79-00-51, 1, 2-Trichloroethane       10 U	
78-87-51,2-Dichloropropane       10 U         10061-01-5cis-1,3-Dichloropropene       10 U         79-01-6Trichloroethene       48         124-48-1Dibromochloromethane       10 U         79-00-51,1,2-Trichloroethane       10 U	
10061-01-5cis-1,3-Dichloropropene       10 U         79-01-6Trichloroethene       48         124-48-1Dibromochloromethane       10 U         79-00-51,1,2-Trichloroethane       10 U	
79-01-6Trichloroethene       48         124-48-1Dibromochloromethane       10         79-00-51,1,2-Trichloroethane       10	
124-48-1Dibromochloromethane       10 U         79-00-51,1,2-Trichloroethane       10 U	
79-00-51,1,2-Trichloroethane10 U	
T1 40 0	
71-43-2Benzene 49	
10061-02-6trans-1,3-Dichloropropene 10 U	
75-25-2Bromoform10 U	
108-10-14-Methyl-2-Pentanone10 U	
591-78-62-Hexanone10 U	
127-18-4Tetrachloroethene10 U	
79-34-51,1,2,2-Tetrachloroethane 10 U	
108-88-3Toluene	
108-90-7Chlorobenzene 49	
100-41-4Ethylbenzene10 U	
100-42-5Styrene10 U	
1330-20-7Xylene (Total) 10 U	-
540-59-01,2-Dichloroethene (total) 10 U	

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW32-09MSD

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU

Case No.: 34200 SAS No.:

SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944471

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: CN044471B57

Level:

(low/med) LOW Date Received: 06/11/99

% Moisture: not dec.

Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uJ<sub>1</sub>)

Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/L Q

	<del></del>		<del></del>
74-87-3Chloromethane		10	ט
74-83-9Bromomethane		10	U
75-01-4Vinyl Chloride		10	ַ ען
75-00-3Chloroethane -		10	U
75-09-2Methylene Chlor	ide	3	J
67-64-1Acetone		1	Jв
75-15-0Carbon Disulfic	e	10	U
75-35-41,1-Dichloroeth	ene	50	
75-34-31,1-Dichloroeth		10	Ū
67-66-3Chloroform		10	1
107-06-21,2-Dichloroeth	ane	10	1 -
78-93-32-Butanone		10	I -
71-55-61,1,1-Trichloro	ethane	10	i -
56-23-5Carbon Tetrachl		10	Ü
75-27-4Bromodichlorome		10	1 -
78-87-51,2-Dichloropro		10	-
10061-01-5cis-1,3-Dichlor	corropene	10	1 -
79-01-6Trichloroethene		49	
124-48-1Dibromochlorome		10	ŢŢ
79-00-51,1,2-Trichlord		10	
71-43-2Benzene	echare	50	10
10061-02-6trans-1,3-Dichl	oropropone	10	TT
75-25-2Bromoform	Olobiobelle		lΰ
108-10-14-Methyl-2-Pent	anone	10	-
591-78-62-Hexanone	.anone	10	•
127-18-4Tetrachloroethe		10	I -
79-34-51,1,2,2-Tetrach		10	1 -
108-88-3Toluene	TOLOGCHARIE	51	ļ <sup>U</sup>
108-90-7Chlorobenzene	<del></del>		
	<del></del>   .	49	i ———
100-41-4Ethylbenzene		10	I -
100-42-5Styrene		10	-
1330-20-7Xylene (Total)	(4-4-1)	10	1 -
540-59-01,2-Dichloroet	ene (total)	10	ט
			l

ACSGWMW32-09

Lub Name: COMPULIEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944685

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044685A70

Level: (low/med) LOW

Date Received: 06/11/99

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

CONCENTRATIO CAS NO. COMPOUND (ug/L or ug/		•	. Q
108-95-2Phenol	4 4.	10	U
111-44-4bis(2-Chloroethyl)ether 95-57-82-Chlorophenol		10 10	Ū

	111-44-4bis(2-Chloroethyl)ether		. 1	0   U		١
	95-57-82-Chlorophenol		. 1	0   U		
	541-73-11,3-Dichlorobenzene		1	0   U	•	l
	106-46-71,4-Dichlorobenzene	$\mathcal{A}_{i}$	1	0   U		
١	95-50-11,2-Dichlorobenzene		1	ÓÌυ	Ī	
	95-48-72-Methylphenol		1	0   U	Ī	ĺ
ĺ	108-60-12,2'-oxybis(1-Chloropropane)		1	o U	Ī	
l	106-44-54-Methylphenol		1	0   U	7	l
l	621-64-7N-Nitroso-di-n-propylamine		1	0   U	Ī	
	67-72-1Hexachloroethane		1	0   U	Г	
	98-95-3Nitrobenzene		1	ס   ט	Ī	
	78-59-1Isophorone		1	5		l
	88-75-52-Nitrophenol		1	០២	ī	
	105-67-92,4-Dimethylphenol		. 1	טוס	ſ	
	111-91-1bis(2-Chlorcethoxy) methane		1	טוס	Г	
١	120-83-22,4-Dichlorophenol			טוס	ī	1
l	120-82-11,2,4-Trichlorobenzene		1	olυ	Ī	
l	91-20-3Naphthalene			olυ	ſ	
l	106-47-84-Chloroaniline		1	οlu	ī	İ
Ì	87-68-3Hexachlorobutadiene	Ì	1	0 0	Ţ	
l	59-50-74-Chloro-3-methylphenol			0 0	Ţ	
l	91-57-62-Methylnaphthalene			οŪ		
l	77-47-4Hexachlorocyclopentadiene			ŏΙū	Ţ	ļ
١	88-06-22,4,6-Trichlorophenol		_	οlū		
l	95-95-42,4,5-Trichlorophenol			ร์   บั		Ĺ
l	91-58-72-Chloronaphthalene			้อไซ		
l	88-74-42-Nitroaniline	}		5 T		
l	131-11-3Dimethylphthalate			ου	-	
l	208-96-8Acenaphthylene			οι		1
1	606-20-22,6-Dinitrotoluene	1		οι	•	
1	99-09-23-Nitroaniline			5 T		
I	83-32-9Acenaphthene			טונ	•	
۱	os sz s Rechaphenene			۲۱۲	,	1

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACSGWMW32-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Lab Sample ID: 944685 Matrix: (soil/water) WATER

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044685A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: decanted: (Y/N) \_\_\_ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_

CAS NO.	COMPOUND (ug/L or ug,	/Kg) UG/L Q
51-28-5	2,4-Dinitrophenol	25 U
100-02-7	4-Nitrophenol	25 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U
	4-Nitroaniline	25 U
534-52-1	4,6-Dinitro-2-methylphenol	ן 25 ע
86-30-6	N-nitrosodiphenylamine (1)	10 U
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	25 U
	Phenanthrene	10 U
	Anthracene	10 U
	Carbazole	10 U
84-74-2	Di-n-butylphthalate	10 U
	Fluoranthene	10 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 0
91-94-1	3,3'-Dichlorobenzidine	10 U
56-55-3	Benzo(a) anthracene	10 U
218-01-9	Chrysene	10 U
117-81-7	bis(2-Ethylhexyl)phthalate	10 0
117-84-0	Di-n-octylphthalate	10 0
205-99-2	Benzo(b) fluoranthene	10 0
	Benzo(k) fluoranthene	10 0
	Benzo(a)pyrene	10 0
193-39-5	Indeno (1,2,3-cd) pyrene	10 0
53-70-3	Dibenzo(a,h)anthracene	10 0
191-24-2	Benzo(g,h,i)perylene	10 0
		]
i) - Cannot l	oe separated from Diphenylamine	.

FORM I SV-2

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

ACSGWMW32-09

Lab Name: COMPUCHEM

ab Code: COMPU

Contract: OLM03-REVS

Case No.: 34200 SAS No.:

SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944685

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: GH044685A70

Level:

(low/med)

LOW

Date Received: 06/11/99

% Moisture:

decanted: (Y/N)

Date Extracted: 06/14/99

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 07/20/99

Injection Volume:

2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 28

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1	UNKNOWN SILOXANE	6.84	100	J
$\frac{1}{2}$	UNKNOWN	7.15	15	J
3 3 to 2 4 4 5 c	UNKNOWN	7.44	54	J
4.	UNKNOWN	7.76	9	J
5.	UNKNOWN	8.40	17	J
6.	UNKNOWN SILOXANE	8.52	15	J
7.	UNKNOWN	8.58	9	J
8.	UNKNOWN	8.75	11	J
9.	UNKNOWN	8.87	4	J
10.	UNKNOWN	9.06	12	J
11.	UNKNOWN	9.55	26	J
12.	UNKNOWN	9.85	76	J
13.	UNKNOWN	10.00	16	
14.	UNKNOWN	10.14	33	
15.	UNKNOWN	10.41	200	
16.	UNKNOWN	10.54	56	
17.	UNKNOWN	10.68	240.	J
18.	UNKNOWN	11.27 11.64	12	J
19.	UNKNOWN	11.83		J
20.	UNKNOWN	12.00	20	J
22.	UNKNOWN	12.12	10	J
23.	UNKNOWN ALCOHOL	12.27	9	J
24.	UNKNOWN	12.54	16	J
25.	UNKNOWN	12.62	29	Ĵ
26.	UNKNOWN	13.04		J
27.	UNKNOWN	14.02	25	J
28.	UNKNOWN	15.00	10	lj l
29.				-
30.				

ACSGWMW32-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944685

Sample wt/vol: 1030 (g/mL) ML Lab File ID:

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/15/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/17/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

and out of the pure	0.040	
319-84-6alpha-BHC	0.048	
319-85-7beta-BHC	0.048	
319-86-8delta-BHC	0.048	
58-89-9gamma-BHC (Lindane)	0.048	
76-44-8Heptachlor	0.048	U
309-00-2Aldrin	0.048	Ū
1024-57-3Heptachlor epoxide	0.048	U
959-98-8Endosulfan I	0.048	U
60-57-1Dieldrin	0.097	U
72-55-94,4'-DDE	0.097	U ·
72-20-8Endrin	0.097	
33213-65-9Endosulfan II	0.097	
72-54-84,4'-DDD	0.097	
1031-07-8Endosulfan sulfate		U
50-29-34,4'-DDT	0.097	_
72-43-5Methoxychlor	0.48	
53494-70-5Endrin ketone	0.097	
7421-93-4Endrin aldehyde	0.097	
	)	
5103-71-9alpha-Chlordane	0.048	
5103-74-2gamma-Chlordane	0.048	_
8001-35-2Toxaphene	4.8	
12674-11-2Aroclor-1016	1	U
11104-28-2Aroclor-1221		U
11141-16-5Aroclor-1232		U
53469-21-9Aroclor-1242	1	U
12672-29-6Aroclor-1248	0.97	U .
11097-69-1Aroclor-1254	0.97	U .
11096-82-5Aroclor-1260	0.97	υ ·
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# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: COMPU	JCHEM		Contract: II	LM(	04.0		ACSGWMW32-09
Lab Code: COMPU	J_ Cas	se No.: 342	200_ SAS No.	: _	<del></del>	SI	OG No.: 00002_
Matrix (soil/wa	ater): WATE	ર		Lá	ab Sampl	le 1	ID: 944685
Level (low/med)	: LOW_	_		Da	ate Rece	eive	ed: 06/11/99
% Solids:	0.0	)					
Cor	ncentration	Units (ug,	/L or mg/kg dry	7 V	weight)	: UC	G/L
	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum_	27.7			P_	
	7440-36-0	Antimony_	1.0			д П	
	7440-38-2	Arsenic	1.4	الا		P_ P	
	7440-39-3 7440-41-7	Barium Beryllium	0.23	ᇹ		P_	
	7440-41-7	Cadmium	0.23			P-	
	7440-70-2	Calcium_	71100			P_	
	7440-47-3	Chromium	3.0	$\overline{B}$		$P^{-}$	
	7440-48-4	Cobalt	0.92	В		P	,
	7440-50-8	Copper	1.7			P_	
	7439-89-6	Iron	2690	_		P_	,
	7439-92-1	Lead	1.2	$ \overline{B} $		P_	
	7439-95-4	Magnesium	49300	$ _{-} $		P_	
	7439-96-5	Manganese	29.3			P_	·
	7439-97-6	Mercury	0.05			C∏	
	7440-02-0	Nickel	0.57				
	7440-09-7	Potassium	3300		E	P_	
	7782-49-2	Selenium_	1.6			P_P	
	7440-22-4	Silver	0.40	Įυ		l F	

Color Before:	COLORLESS	Clarity Before: CLEAR_	Texture:
Color After:	COLORLESS	Clarity After: CLEAR_	Artifacts:
Comments:			
			·
		<del></del>	

7440-23-5

7440-28-0

7440-62-2

7440-66-6

Sodium\_

Zinc

Thallium

Vanadium\_

Cyanide

FORM I - IN

39500

 $\begin{bmatrix} 2.1 & \overline{U} \\ 0.40 & U \end{bmatrix}$ 

0.40 U

4.7 U

P\_ P\_ P\_

 $C\overline{A}$ 

CAS NO. COMPOUND

EPA SAMPLE NO.

MW33-09

Q

Lab Name: COMPUCHEM Contract: OLM03-REVS Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005 Matrix: (soil/water) WATER Lab Sample ID: 945255 Lab File ID: CN045255B57 Sample wt/vol: 5.0 (g/mL) mLLevel: (low/med) LOW Date Received: 06/12/99 % Moisture: not dec. Date Analyzed: 06/24/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: \_\_\_\_ (uL Soil Extract Volume: (uL) CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

	(49/1 01 49/		Q
74-87-3	Chloromethane		10 U
74-83-9	Bromomethane		10 U
75-01-4	Vinyl Chloride		10 U
75-00-3	Chloroethane		10 0
	Methylene Chloride		9 J
67-64-1			8 JB
	Carbon Disulfide		10 U
	1,1-Dichloroethene		10 U
75-34-3	1,1-Dichloroethane		10 U
67-66-3	Chloroform		10 U
	1,2-Dichloroethane		10 U
78-93-3		e.	1 JB
	1,1,1-Trichloroethane		10 U
	Carbon Tetrachloride		10 U
	Bromodichloromethane		10 U
	1,2-Dichloropropane		10 U
10061-01-5	cis-1,3-Dichloropropene	· ·	10 U
79-01-6	Trichloroethene		10 U
	Dibromochloromethane		10 U
79-00-5	1,1,2-Trichloroethane		10 ប
71-43-2			10 U
10061-02-6	trans-1,3-Dichloropropene		10 U
75-25-2			10 U
	4-Methyl-2-Pentanone		10 U
591-78-6			10 U
	Tetrachloroethene		10 U
	1,1,2,2-Tetrachloroethane		10 U
108-88-3			10 U
	Chlorobenzene		10 U
	Ethylbenzene		10 U
100-42-5	Styrene	}	10 U
1330-20-7	Xylene (Total)		10 U
540-59-0	1,2-Dichloroethene (total)		10 U
<u> </u>		Ì	

FORM I VOA

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

 $(\mathcal{A}^{(i)})_{i} = (\mathcal{A}^{(i)})_{i} \otimes (\mathcal{A}^{(i)}$ 

MW33-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU

Case No.: 34200 SAS No.:

SDG No.: 00005

Matrix: (soil/water) WATER

Lab Sample ID: 945255

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cn045255b57

Level: (low/med) LOW

Date Received: 06/12/99

% Moisture: not dec. \_\_\_\_

Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL

Number TICs found: 7

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

1. 60-29-7 ETHER UNKNOWN ALKANE 8.19 19 J 3. UNKNOWN ALCOHOL 9.57 8 J 4. UNKNOWN ALKANE 11.63 16 J 5. 109-99-9 FURAN, TETRAHYDRO- 11.98 148 NJ 6. UNKNOWN 13.13 7 J 7. 123-91-1 1,4-DIOXANE 14.75 17 NJ 8. 9	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
28. 29.	1. 60-29-7 2. 3. 4. 5. 109-99-9 6. 7. 123-91-1 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28.	ETHER UNKNOWN ALKANE UNKNOWN ALCOHOL UNKNOWN ALKANE FURAN, TETRAHYDRO- UNKNOWN 1,4-DIOXANE	7.56 8.19 9.57 11.63 11.98 13.13	3 19 8 16 148 7 17	===== NJ J J J NJ NJ

MW33-09

Lab File ID: GH045255B70

Date Received: 06/12/99

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Lab Sample ID: 945255 Matrix: (soil/water) WATER

1000 (g/mL) ML Sample wt/vol:

% Moisture: decanted: (Y/N) Date Extracted:06/16/99

Concentrated Extract Volume: Date Analyzed: 07/07/99 1000 (uL)

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N : Hq

LOW

Level: (low/med)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND 0

108-95-2Phenol	10	U
111-44-4bis(2-Chloroethyl)ether	10	_
95-57-82-Chlorophenol	10	_
541-73-11,3-Dichlorobenzene	10	
106-46-71,4-Dichlorobenzene	10	
95-50-11,2-Dichlorobenzene	10	
95-48-72-Methylphenol	10	-
108-60-12,2'-oxybis(1-Chloropropane)	10	Ü
106-44-54-Methylphenol	10	Ŭ
621-64-7N-Nitroso-di-n-propylamine	10	1
67-72-1Hexachloroethane	10	· ·
98-95-3Nitrobenzene	10	
78-59-1Isophorone	10	
88-75-52-Nitrophenol	10	
105-67-92,4-Dimethylphenol	10	
111-91-1bis (2-Chloroethoxy) methane	10	
120-83-22,4-Dichlorophenol	10	
120-82-11,2,4-Trichlorobenzene	10	,
91-20-3Naphthalene	10	
106-47-84-Chloroaniline	10	1
87-68-3Hexachlorobutadiene	10	
59-50-74-Chloro-3-methylphenol	10	
91-57-62-Methylnaphthalene	10	I -
77-47-4Hexachlorocyclopentadiene	10	
88-06-22,4,6-Trichlorophenol	10	_
95-95-42,4,5-Trichlorophenol	25	
91-58-72-Chloronaphthalene	10	
88-74-42-Nitroaniline	25	
131-11-3Dimethylphthalate	10	1
208-96-8Acenaphthylene	10	
606-20-22,6-Dinitrotoluene	10	1
99-09-23-Nitroaniline	25	
83-32-9Acenaphthene	10	Ū
		1

FORM I SV-1

				MW33-09
Lab Name:	COMPUCHEM	Contract:	OLM03-REVS	

ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Lab Sample ID: 945255 Matrix: (soil/water) WATER

Lab File ID: GH045255B70 Sample wt/vol: 1000 (g/mL) ML

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: decanted: (Y/N) Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N : Hq

> CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

	T	<del>-                                    </del>
51-28-52,4-Dinitrophenol		25 U
100-02-74-Nitrophenol		25 U
132-64-9Dibenzofuran		10 0
121-14-22,4-Dinitrotoluene	1	เอ่าซั
84-66-2Diethylphthalate		10 U
7005-72-34-Chlorophenyl-phenylether	1	iolū
86-73-7Fluorene	1	10 U
100-01-64-Nitroaniline		25 U
534-52-14,6-Dinitro-2-methylphenol		25 U
86-30-6N-nitrosodiphenylamine (1)		10 U
101-55-34-Bromophenyl-phenylether	1	เ้อ ไบ้
118-74-1Hexachlorobenzene	l .	iolū
87-86-5Pentachlorophenol		25 U
85-01-8Phenanthrene		10 Ü
120-12-7Anthracene		10 U
86-74-8Carbazole		10 U
84-74-2Di-n-butylphthalate		10 U
206-44-0Fluoranthene		10 U
129-00-0Pyrene		10 U
85-68-7Butylbenzylphthalate 91-94-13,3'-Dichlorobenzidine		10 U
91-94-13,3'-Dichlorobenzidine		10 U
56-55-3Benzo(a) anthracene		10 U
218-01-9Chrysene		10 U
117-81-7bis(2-Ethylhexyl)phthalate	`	1 J
117-84-0Di-n-octylphthalate	·	10 U
205-99-2Benzo(b) fluoranthene		10 U
207-08-9Benzo(k) fluoranthene		10 U
50-32-8Benzo(a)pyrene	. d	10 U
193-39-5Indeno(1,2,3-cd)pyrene		10 U
53-70-3Dibenzo(a,h)anthracene		10 U
191-24-2Benzo(g,h,i)perylene	]	10 U
- Cannot be senarated from Dinhenylamine		/

(1) - Cannot be separated from Diphenylamine

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW33-09

Contract: OLM03-REVS Lab Name: COMPUCHEM

Lab Code: COMPU

Case No.: 34200 SAS No.:

- SDG No.: 00005

Matrix: (soil/water) WATER

Lab Sample ID: 945255

Sample wt/vol:

1000 (g/mL) ML

Lab File ID:

GH045255B70 .

Level:

(low/med)

LOW

Date Received: 06/12/99

% Moisture:

decanted: (Y/N)

Date Extracted:06/16/99

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 07/07/99

Injection Volume:

2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 30

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

			<del></del>	·
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
======================================	I TOTAL OF THE TAX A STATE OF TAX A STATE OF TAX	4.47	26	J
1.	UNKNOWN		12	
2.	UNKNOWN	4.55		
3.	UNKNOWN	5.14	34	
4.	UNKNOWN	5.20	31	
5.	UNKNOWN	5.30	· 21	
6.	UNKNOWN	6.14	5	J
7.	UNKNOWN	6.39	59	
8.	UNKNOWN	6.65	260	
9.	UNKNOWN	6.68	7	J
10.	UNKNOWN	6.85	23	J
11.	UNKNOWN	7.32	,22	J
12.	UNKNOWN	7.43	23	J
13.	UNKNOWN	7.59	4	J
14.	UNKNOWN	8.08	29	
15.	UNKNOWN	8.27	15	
16.	UNKNOWN	8.34	18	
17.	UNKNOWN	8.49	. 9	J
18. 611-01-8	BENZOIC ACID, 2,4-DIMETHYL-	8.71	3	NJ
19.	UNKNOWN	8.93	17	J
20.	UNKNOWN	9.79	16	J
21. 98-73-7	BENZOIC ACID, P-TERT-BUTYL-	9.93	22	NJ
22.	UNKNOWN	9.99	5	J
23.	UNKNOWN	10.28	4	
24. 101-10-0	PROPANOIC ACID, 2-(3-CHLOROP	10.62	10	_
25.	UNKNOWN	11.11	3	J
26.	UNKNOWN	11.77	4	Ĵ
27.	UNKNOWN	12.07	5	J
28.	UNKNOWN	13.05	14	
29.	UNKNOWN	13.12	3	J
30.	UNKNOWN	15.47	14	
50.	OTHER OTHER DESIGNATION OF THE PERSON OF THE	10.47		
l	.	l	l	l

FORM I SV-TIC

MW33-09

ab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945255

Sample wt/vol: 1050 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 06/12/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

319-84-6alpha-BHC			
11090-82-3AIGCIOI 1200	319-85-7beta-BHC 319-86-8delta-BHC 58-89-9gamma-BHC (Lindane) 76-44-8	0.017 0.048 0.0025 0.0048 0.048 0.095 0.09	101790000000000000000000000000000000000

#### 1 INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO
		LVO

			MW33-09
Lab Name: COMPUCHEM	Contract:	ILM04.0	

Matrix (soil/water): WATER Lab Sample ID: 945255

Level (low/med): LOW\_\_ Date Received: 06/12/99

% Solids: \_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_\_\_\_

CAS No.	Analyte	Concentration	С	Q .	М
7429-90-5	Aluminum	90.2	B		P
7440-36-0	Antimony -	2.3	В		$ P^- $
7440-38-2	Arsenic	16.7		<del></del>	$ P^- $
7440-39-3	Barium —	1060	-		$ P^- $
7440-41-7	Beryllium	0.40	$ \overline{B} $		$ P^- $
7440-43-9	Cadmium	1.5	В		$ P^- $
7440-70-2	Calcium	242000			$ P^- $
7440-47-3	Chromium	5.0	$\overline{B}$		P_
7440-48-4	Cobalt.	2.9	$ _{B} $		$ P^- $
7440-50-8	Copper	4.7	В		P-
7439-89-6	Iron	22400		-	$ P^- $
7439-92-1	Lead	1.0	Ū		$P^{-}$
7439-95-4	Magnesium	54900			$P^-$
7439-96-5	Manganese	75.4	-		P
7439-97-6	Mercury	0.05	บิ		CV
7440-02-0	Nickel	9.2	В		P
7440-09-7	Potassium	10500			P
7782-49-2	Selenium	3.1	Ū		P
7440-22-4	Silver	0.46	В		P_
7440-23-5	Sodium	170000			P
7440-28-0	Thallium	4.1	Ū		P_
7440-62-2	Vanadium_	0.94	В		P_
7440-66-6	Zinc	1.4	В		P_
	Cyanide	4.7	U		CĀ
\			_		

			<del></del> ·
Color Befo	re: COLORLESS	Clarity Before: CLEAR_	Texture:
Color Afte:	r: COLORLESS	Clarity After: CLEAR_	Artifacts:
Comments:		·	

FORM I - IN

ILM04.0

# VOLATILE ORGANICS ANALYSIS DATA SHEET

127-18-4----Tetrachloroethene

EPA SAMPLE NO.

10 U

MW34-09 b Name: COMPUCTEM Contract: OLM03-REVS Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007 Matrix: (soil/water) WATER Lab Sample ID: 945707 Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR045707A57 Level: (low/med) LOW Date Received: 06/16/99 % Moisture: not dec. Date Analyzed: 06/30/99 ID: 0.53 (mm) Dilution Factor: 1.0 GC Column: EOUITY624 Soil Aliquot Volume: \_\_\_\_(uL Soil Extract Volume: (uL) CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L CAS NO. COMPOUND 0 75-01-4-----Vinyl Chloride 10 U 75-00-3-----Chloroethane 10 U 75-35-4-----1,1-Dichloroethene 10 U 71-55-6----1,1,1-Trichloroethane 10 U 79-01-6-----Trichloroethene 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2-----Benzene U 10

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

	_	
MT424 00		
MW34-09		
	_	

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU

Case No.: 34200 SAS No.:

SDG No.: 00007

Matrix: (soil/water) WATER

Lab Sample ID: 945707

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cr045707a57

Level: (low/med) LOW

Date Received: 06/16/99

% Moisture: not dec.

Date Analyzed: 06/30/99

Soil Aliquot Volume:

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

! (uL

Soil Extract Volume: \_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number	TICs	found:	0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1				
4.				
5. 6.				
8. 9.				
10.				
12. 13. 14.				
15. 16.				
18.				
19. 20. 21.				
22				
25			<u> </u>	
26. 27. 28.				<u></u>
29.				
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FORM I VOA-TIC

OLM03.

#### 1 INORGANIC ANALYSES DATA SHEET

	EPA	SAMPLE	NO.
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•	INORGANIC ANALYS	SES DATA SHEET	
Lab Name: COMPUCHEM_	Cor	ntract: ILM04.0	Mw34-09
Lab Code: COMPU_	Case No.: 34200_	SAS No.:	SDG No.: 00007_
Matrix (soil/water):	WATER	Lab Sample	e ID: 945707
Level (low/med):	LOW	Date Recei	lved: 06/16/99
% Solids:	0.0		

Concentration Units (ug/L or mg/kg dry weight): UG/L\_\_\_\_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	119	$\overline{\mathtt{B}}$	<del></del>	${P}$
7440-36-0	Antimony	1.8	IJ		$_{\rm P}^{-}$
7440-38-2	Arsenic -	2.0	Ū		$ P^- $
7440-39-3	Barium —	187	В		P-
7440-41-7	Beryllium	0.10	Ū		P <sup>-</sup>
7440-43-9	Cadmium	0.58	В		P-
7440-70-2	Calcium	77600	_	<del></del>	$ \tilde{P}^- $
7440-47-3	Chromium	13.8	-		$ \bar{P}^- $
7440-48-4	Cobalt	0.70	$\overline{B}$		P
7440-50-8	Copper	7.7	В	<del></del>	$ P^- $
7439-89-6	Iron	3070	]		$ P^- $
7439-92-1	Lead	1.1	B		P -
7439-95-4	Magnesium	53400		·	$ P^- $
7439-96-5	Manganese	19.6	-		$ P^- $
7439-97-6	Mercury	0.02	$\overline{\mathbf{U}}$		CV
7440-02-0	Nickel -	12.3	В		Р
7440-09-7	Potassium	3820	B		$ P^- $
7782-49-2	Selenium	3.1	U		_P_
7440-22-4	Silver	0.30	Ū		P
7440-23-5	Sodium	35100			P-
7440-28-0	Thallium	4.1	ਹ		$ P^- $
7440-62-2	Vanadium	0.60	U		$ P^- $
7440-66-6	Zinc	5.6	В		$ P^- $
1 2 3 3 3	Cyanide			l ———	NR
1	-		-		[
I	I	! <del></del>	I	l	I I

Color Befor	e: COLORLESS	Clarity Before: CLEAR_	Texture:	
Color After	: COLORLESS	Clarity After: CLEAR_	Artifacts:	
Comments:				

FORM I - IN

#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

ACSGWMW50-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944694

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044694B57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_\_(uL

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

74-87-3	Chloromethane	10	U
	Bromomethane	10	1 -
	Vinyl Chloride	10	1
	Chloroethane	— ·	-
		10	
	Methylene Chloride	3	J
67-64-1		2	JB
	Carbon Disulfide	10	L .
75-35-4	1,1-Dichloroethene	10	
	1,1-Dichloroethane	10	
	Chloroform	10	
	1,2-Dichloroethane	10	
	2-Butanone	10	
	1,1,1-Trichloroethane	10	U
	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	lυ
10061-01-5	cis-1,3-Dichloropropene	10	lυ
79-01-6	Trichloroethene	10	lυ
	Dibromochloromethane	10	1
	1,1,2-Trichloroethane	10	
71-43-2		10	
	trans-1,3-Dichloropropene	10	
75-25-2	Bromoform	10	_
	4-Methyl-2-Pentanone	10	
591-78-6	2-Hexanone	10	
127-18-4	Tetrachloroethene	10	
	1,1,2,2-Tetrachloroethane	10	
108-88-3			υ
	Chlorobenzene	10	
	Ethylbenzene		Ü
	Styrene		<b>1</b>
100-42-5	Viriana (Total)		U U
1330-20-/	Xylene (Total)	10	1
540-59-0	1,2-Dichloroethene (total)	10	ָ <u>ט</u>
l			.

FORM I VOA

### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TENTATIVELY IDENTIFIED COMPOUNDS

Case No.: 34200 SAS No.:

ACSGWMW50-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 944694

Sample wt/vol:

Lab Code: COMPU

5.0 (g/mL) mL

Lab File ID: cn044694b57

Level: (low/med) LOW

Date Received: 06/11/99

% Moisture: not dec.

Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	ŖТ	EST. CONC.	Q
1				
4.				
5. 6. 7.				
8. 9. 10.				
11.				
14. 15.				
16. 17. 18.				
19. 20. 21.				
23.				
24. 25. 26.				
28				
29.				

ACSGWMW50-09

10 U

Contract: OLM03-REVS Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Lab Sample ID: 944694 Matrix: (soil/water) WATER

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044694A70

Level: (low/med) Date Received: 06/11/99 ПОM

Date Extracted:06/14/99 % Moisture: \_\_ decanted: (Y/N)

Date Analyzed: 07/20/99 40 days Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 Injection Volume: 2.0 (uL)

pH:

106-46-7----1,4-Dichlorobenzene

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0

108-95-2----Phenol 10 U 111-44-4-----bis(2-Chloroethyl)ether 10 U 95-57-8-----2-Chlorophenol 10 U 541-73-1-----1,3-Dichlorobenzene 10 U

95-50-1----1,2-Dichlorobenzene 10 U 95-48-7----2-Methylphenol 10 U 108-60-1----2,2'-oxybis(1-Chloropropane) 10 U 106-44-5-----4-Methylphenol 10 U 621-64-7-----N-Nitroso-di-n-propylamine 10 U

67-72-1-----Hexachloroethane 10 U 98-95-3-----Nitrobenzene 10 U 78-59-1-----Isophorone 10 U

88-75-5----2-Nitrophenol 10 U 105-67-9-----2,4-Dimethylphenol 10 U

111-91-1-----bis(2-Chloroethoxy) methane 10 U 120-83-2-----2,4-Dichlorophenol 10 U

120-82-1----1,2,4-Trichlorobenzene 10 U 91-20-3-----Naphthalene 10 U

10 U 106-47-8-----4-Chloroaniline

87-68-3-----Hexachlorobutadiene 10 U 59-50-7-----4-Chloro-3-methylphenol 10 U

91-57-6-----2-Methylnaphthalene 10 U 10 U 77-47-4-----Hexachlorocyclopentadiene

88-06-2----2,4,6-Trichlorophenol 10 U 95-95-4-----2,4,5-Trichlorophenol 25 U

91-58-7-----2-Chloronaphthalene 10 U 88-74-4----2-Nitroaniline 25 U

131-11-3------Dimethylphthalate 10 U 208-96-8-----Acenaphthylene 10 U

606-20-2----2,6-Dinitrotoluene 10 U 99-09-2----3-Nitroaniline -25 U 83-32-9-----Acenaphthene 10 U

FORM I SV-1

OLM03.0

ACSGWMW50-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

b Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Lab Sample ID: 944694 Matrix: (soil/water) WATER

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044694A70

Date Received: 06/11/99 Level: (low/med) LOW

% Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_\_ Date Extracted:06/14/99

Date Analyzed: 07/20/99 Concentrated Extract Volume: 1000(uL)

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

CAS NO.	COMPOUND	(ug/L or ug/K	g) UG/L	Q
51-28-5 100-02-7 132-64-9 121-14-2 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 18-74-1 87-86-5 85-01-8 120-12-7 86-74-8 206-44-0 129-00-0 85-68-7 91-94-1 56-55-3 218-01-9 117-81-7 117-84-0 205-99-2 207-08-9 50-32-8 193-39-5 53-70-3 191-24-2	2,4-Dinitrophe4-NitrophenolDibenzofuran2,4-DinitrotoDiethylphthala4-ChlorophenyFluorene4-Nitroaniline4,6-Dinitro-2N-nitrosodiphe4-BromophenylHexachlorobensPentachlorophePhenanthreneCarbazoleDi-n-butylphtFluoranthenePyreneButylbenzylphBenzo(a) anthreBenzo(b) fluoreBenzo(b) fluoreBenzo(a) pyren	enol	25 25 10 10 10 10 25 25 10 10 10 10 10 10 10 10 10 10 10 10 10	מממממממממממממממממממממממ
i) - Cannot b	be separated from D	iphenylamine		· ———— •

CONCENTRATION UNITS:

FORM I SV-2

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW50-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU

Case No.: 34200 SAS No.:

SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 944694

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: GH044694A70

Level: (low/med)

LOW

Date Received: 06/11/99

% Moisture: \_\_\_\_\_

decanted: (Y/N)

Date Extracted:06/14/99

Concentrated Extract Volume:

Date Analyzed: 07/20/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

1000 (uL)

Number TICs found: 28

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN SILOXANE	6.84	32	]===== J
1.	UNKNOWN SILOXANE	6.89	8	J
3.	TRIMETHYLBENZENE	7.11	4	J
3.	UNKNOWN	7.42	12	J
5.	UNKNOWN	8.26	7	J
6.	UNKNOWN	8.40	7	J
7.	TETRAMETHYLBENZENE	8.53	, 9	J
8.	UNKNOWN	8.75	5	j
9.	UNKNOWN	9.41	. 8	J
10.	UNKNOWN	9.54	23	J
10.	UNKNOWN	9.87	81	J
12,	UNKNOWN	10.00	. 9	J
13.	UNKNOWN	10.14	15	J
14.	UNKNOWN	10.44	280	J
15.	UNKNOWN	10.56	67	lj l
16.	UNKNOWN	10.66	150	
17.	UNKNOWN	11.27	26	J
18.	UNKNOWN	11.52	23	J
19.	UNKNOWN	11.82	20	J
20.	UNKNOWN	11.99	20	J
21.	UNKNOWN	12.26	11	J
22.	UNKNOWN	12.53	11	1
23.	UNKNOWN	12.62	20	
24.	UNKNOWN	12.77	12	J
25.	UNKNOWN	14.02	13	J
26.	UNKNOWN	14.33	20	J
27.	UNKNOWN	15.02	16	lj l
28.	UNKNOWN	19.38	28	
29.	:			
30.				
1	·	·——	· —————	'

FORM I SV-TIC

OLM03.0

ACSGWMW50-09RE

Lab Name: COMPUCHEM Contract: OLM03-REVS

ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Lab Sample ID: 944694 Matrix: (soil/water) WATER

Sample wt/vol: 960 (g/mL) ML Lab File ID: GR044694A66

Level: (low/med) Date Received: 06/11/99 LOW

Date Extracted:07/07/99 27 % Moisture: decanted: (Y/N)\_\_\_

Date Analyzed: 07/09/99 29 Concentrated Extract Volume: 1000(uL)

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND

108-95-2Phenol	10	IJ
111-44-4bis(2-Chloroethyl)ether	10	1 - 1
95-57-82-Chlorophenol	10	1 .
541-73-11,3-Dichlorobenzene	1.0	
106-46-71,4-Dichlorobenzene	10	1 1
95-50-11,2-Dichlorobenzene	10	1 -
95-48-72-Methylphenol	10	
108-60-12,2'-oxybis(1-Chloropropane)	10	
106-44-54-Methylphenol	10	_
621-64-7N-Nitroso-di-n-propylamine	10	
67-72-1Hexachloroethane	10	_
98-95-3Nitrobenzene	10	
78-59-1Isophorone	10	1 .
88-75-52-Nitrophenol	10	1 -
105-67-92,4-Dimethylphenol	10	
111-91-1bis (2-Chloroethoxy) methane	10	_
120-83-22,4-Dichlorophenol	10	I -
120-82-11,2,4-Trichlorobenzene	10	1 -
91-20-3Naphthalene	10	
106-47-84-Chloroaniline	10	1
87-68-3Hexachlorobutadiene	10	1
59-50-74-Chloro-3-methylphenol	10	-
91-57-62-Methylnaphthalene	10	_
77-47-4Hexachlorocyclopentadiene	10	1 -
88-06-22,4,6-Trichlorophenol	10	i -
95-95-42,4,5-Trichlorophenol	. 26	
91-58-72-Chloronaphthalene	10	1
88-74-42-Nitroaniline	26	1 ~
131-11-3Dimethylphthalate	10	1
208-96-8Acenaphthylene	10	1
606-20-22,6-Dinitrotoluene	10	1
99-09-23-Nitroaniline	26	1
83-32-9Acenaphthene	10	II.
05 52 5 Rechaphenene	10	٦
		l

र नरकर १६४१ वर्षे वर्षे हुए जनके वेद है।

ACSGWMW50-09RE

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00003

Matrix: (soil/water) WATER Lab Sample ID: 944694

Sample wt/vol: 960 (g/mL) ML Lab File ID: GR044694A66

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: decanted: (Y/N) \_\_\_ Date Extracted:07/07/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5-----2,4-Dinitrophenol 26 | U 100-02-7----4-Nitrophenol 26 U 132-64-9-----Dibenzofuran 10 U 121-14-2----2,4-Dinitrotoluene 10 U 84-66-2-----Diethylphthalate 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 10 U 100-01-6----4-Nitroaniline 26 U 534-52-1----4,6-Dinitro-2-methylphenol 26 U 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3-----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 U 87-86-5----Pentachlorophenol 26 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8-----Carbazole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1----3,3'-Dichlorobenzidine 10 U 56-55-3----Benzo(a)anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7----bis(2-Ethylhexyl)phthalate 10 U 117-84-0-----Di-n-octylphthalate\_ 10 U 205-99-2----Benzo (b) fluoranthene 10 U 207-08-9-----Benzo(k)fluoranthene 10 U 50-32-8-----Benzo(a)pyrene 10 U 193-39-5-----Indeno(1,2,3-cd)pyrene 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 U 191-24-2-----Benzo(q,h,i)perylene U 101 (1) - Cannot be separated from Diphenylamine

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### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

o Code: COMPU Case No.: 34200 SAS No.:

EPA SAMPLE NO.

ACSGWMW50-09RE

SDG No.: 00003

					ACSGW
ab	Name:	COMPUCHEM	Contract:	OLM03-REVS	

Matrix: (soil/water) WATER Lab Sample ID: 944694

Sample wt/vol: 960 (q/mL) ML Lab File ID: GR044694A66

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: decanted: (Y/N) Date Extracted:07/07/99

Date Analyzed: 07/09/99 Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

pH:

Number TICs found: 6

GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
- {	1.	UNKNOWN	6.35	2	J
1	2.	UNKNOWN (BC)	7.38	7	JВ
- 1	3.	UNKNOWN (BC)	11.05	2	JB
	4.	UNKNOWN	12.19	16	J
	5.	UNKNOWN	18.41	3	J
1				2	J
	6.	UNKNOWN	18.46	2	ا ا ا
	7				l
	8.				·
	9.				
- 1	10				
	11.		<del></del>		<del></del>
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FORM I SV-TIC

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW50-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00003

Matrix: (soil/water) WATER

Lab Sample ID: 944694

Sample wt/vol:

1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)\_\_\_

Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted:06/15/99

Concentrated Extract Volume: 10000(uL)

Date Analyzed: 07/06/99 21 6016

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

	<del></del>	-
319-84-6alpha-BHC	0.050	l TT
319-85-7beta-BHC	0.0090	
319-86-8delta-BHC	0.00098	
58-89-9gamma-BHC (Lindane)	0.050	U.
76-44-8Heptachlor	0.050	ט
309-00-2Aldrin	0.050	-
1024-57-3Heptachlor epoxide	* * * * * * * * * * * * * * * * * * * *	
959-98-8Endosulfan I	0.050	
60-57-1Dieldrin	0.10	i
72-55-94,4'-DDE	0.10	Ū
72-20-8Endrin	0.10	
33213-65-9Endosulfan II	0.10	
72-54-84,4'-DDD	0.10	-
1031-07-8Endosulfan sulfate	0.10	Ŭ
50-29-34,4'-DDT	0.10	
72-43-5Methoxychlor	0.0063	JPB
53494-70-5Endrin ketone	0.10	U
7421-93-4Endrin aldehyde	0.10	U
5103-71-9alpha-Chlordane	0.050	U
5103-74-2gamma-Chlordane	0.050	U
8001-35-2Toxaphene	5.0	U
12674-11-2Aroclor-1016	1.0	
11104-28-2Aroclor-1221	2.0	
11141-16-5Aroclor-1232	1,0	Ū
53469-21-9Aroclor-1242	1.0	Ū
12672-29-6Aroclor-1248	1.0	_
11097-69-1Aroclor-1254	1.0	Ü
11097-69-1Aroclor-1254	1.0	Ü
11090-02-3RIOCIOI-1200	1.0	١
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### I INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: COMPUCHEM	Contract:	ILM04.0	ACSGWMW50-09
Lab Code: COMPU_ Cas	se No.: 34200_ SAS No.	o.:	SDG No.: 00003_
Matrix (soil/water): WATER	2	Lab Sampl	e ID: 944694
Level (low/med): LOW	-	Date Rece	ived: 06/11/99
% Solids:0.0		·	
Concentration	Units (ug/L or mg/kg	dry weight):	UG/L
CAS No.	Analyte Concentration	on C Q	M
7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-95-4 7439-96-5 7439-97-6 7440-02-0 7440-09-7 7782-49-2 7440-23-5	Arsenic 2 Barium 2 Beryllium 2 Cadmium 2 Calcium 1410 Chromium 1 Cobalt 5 Copper 12 Iron 103 Lead 4 Magnesium 665 Manganese 1 Mercury 1 Nickel 1 Potassium 5 Selenium 3 Silver 0. Sodium 3040	. 3 B	P
7440-28-0 7440-62-2 7440-66-6 —————————————————————————————————	Vanadium 8 Zinca 9 Cyanide 4	. 3   B     . 1   B:   ···· *     . 7   U	P_ P_ P_ CA 

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_\_

Comments: \_\_\_\_\_\_

FORM I - IN

### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW51-09

Q

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945253

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045253B57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_ (uL) Soil Aliquot Volume: (uL

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

74-87-3-----Chloromethane 10 U 74-83-9-----Bromomethane 10 U 75-01-4-----Vinyl Chloride 10 U 75-00-3------Chloroethane 10 U 75-09-2-----Methylene Chloride 8 J 67-64-1-----Acetone 10 U 75-15-0-----Carbon Disulfide 10 U 75-35-4----1,1-Dichloroethene 10 U 75-34-3-----1,1-Dichloroethane\_ 10 U 67-66-3-----Chloroform 10 U 107-06-2-----1,2-Dichloroethane 10 U 78-93-3----2-Butanone 10 U 71-55-6-----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 0 75-27-4-----Bromodichloromethane 10 U 78-87-5-----1,2-Dichloropropane 10 U 10061-01-5----cis-1,3-Dichloropropene\_ 10 U 79-01-6-----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2-----Benzene 10061-02-6-----trans-1,3-Dichloropropene 10 U 10 U 75-25-2-----Bromoform 10 U 108-10-1-----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U 127-18-4----Tetrachloroethene 10 U 79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene 10 U 100-41-4----Ethylbenzene 10 U 10 U 10 U 540-59-0-----1,2-Dichloroethene (total) . 10 U

FORM I VOA

OLM03

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Soil Aliquot Volume: \_\_\_\_(uL

MW51-09

Lab Name: COMPUCHEM Contract: OLM03-REVS	
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Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945253

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045253b57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

de columningolitical latitude (mm)

Soil Extract Volume: (uL)

CONCENTRATION UNITS:
Number TICs found: 4 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	~
1. 60-29-7 2. 3. 109-99-9 4. 123-91-1 5. 6.	ETHER UNKNOWN ALCOHOL FURAN, TETRAHYDRO- 1,4-DIOXANE	7.71 9.59 11.98 14.75	3685 86 81 15	NJ J NJ
8. 9. 10. 11. 12. 13. 14.				
16. 17. 18. 19. 20. 21.				
24. 25. 26. 27.				
29.				

MW51-09 Contract: OLM03-REVS Lab Name: COMPUCHEM

SDG No.: 00005 Lab Code: COMPU Case No.: 34200 SAS No.:

Lab Sample ID: 945253 Matrix: (soil/water) WATER

Lab File ID: GH045253B70 1000 (g/mL) ML Sample wt/vol:

Date Received: 06/12/99 Level: (low/med) LOW

Date Extracted:06/16/99 % Moisture: decanted: (Y/N)\_\_\_\_

Concentrated Extract Volume: Date Analyzed: 07/07/99 1000 (uL)

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_

CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) UG/L CAS NO. Q

108-95-2Phenol	10	ַ ט
111-44-4bis(2-Chloroethyl)ether	10	ט
95-57-82-Chlorophenol	10	ט
541-73-11,3-Dichlorobenzene	10	ַ ט
106-46-71,4-Dichlorobenzene	10	υ
95-50-11,2-Dichlorobenzene	10	ט
95-48-72-Methylphenol	10	ט
108-60-12,2'-oxybis(1-Chloropropane)	10	ט
106-44-54-Methylphenol	10	ַ ט
621-64-7N-Nitroso-di-n-propylamine	10	ט
67-72-1Hexachloroethane	10	ן ט
98-95-3Nitrobenzene	. 10	U
78-59-1Isophorone	10	U
88-75-52-Nitrophenol		Ū
105-67-92,4-Dimethylphenol	10	Ū
111-91-1bis(2-Chloroethoxy)methane	10	Ū
120-83-22,4-Dichlorophenol	10	Ū l
120-82-11,2,4-Trichlorobenzene	10	Ū
91-20-3Naphthalene	10	<u></u> ט
106-47-84-Chloroaniline	10	lŭ l
87-68-3Hexachlorobutadiene	. 10	Ū
59-50-74-Chloro-3-methylphenol	10	lŭ l
91-57-62-Methylnaphthalene	10	Ū
77-47-4Hexachlorocyclopentadiene	10	l ti
88-06-22,4,6-Trichlorophenol	10	ש ו
95-95-42,4,5-Trichlorophenol	25	Ū .
91-58-72-Chloronaphthalene	10	lữ l
88-74-42-Nitroaniline	25	lŭ l
131-11-3Dimethylphthalate	10	lŭ l
208-96-8Acenaphthylene	10	lŭ l
606-20-22,6-Dinitrotoluene	10	ΙŪ Ι
99-09-23-Nitroaniline	25	Ü
83-32-9Acenaphthene	10	lŭ l
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FORM I SV-1

MW51-09

Contract: OLM03-REVS Lab Name: COMPUCHEM

ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945253

Lab File ID: GH045253B70 1000 (g/mL) ML Sample wt/vol:

Date Received: 06/12/99 Level: (low/med) LOW

% Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_ Date Extracted: 06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH: \_\_\_\_

> CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

51-28-5				
132-64-9	51-28-5	2,4-Dinitrophenol		
121-14-22, 4-Dinitrotoluene       10       U         84-66-2Diethylphthalate       10       U         7005-72-34-Chlorophenyl-phenylether       10       U         86-73-7Fluorene       10       U         100-01-64-Nitroaniline       25       U         534-52-14, 6-Dinitro-2-methylphenol       25       U         86-30-6N-nitrosodiphenylamine       1)       10       U         101-55-34-Bromophenyl-phenylether       10       U         118-74-1Hexachlorophenol       25       U         87-86-5Pentachlorophenol       25       U         85-01-8Phenanthrene       10       U         120-12-7	100-02-7	Dibongofuran		1
84-66-2				
7005-72-34-Chlorophenyl-phenylether       10 U         86-73-7Fluorene       10 U         100-01-64-Nitroaniline       25 U         534-52-14,6-Dinitro-2-methylphenol       25 U         86-30-6N-nitrosodiphenylamine       11 U         101-55-34-Bromophenyl-phenylether       10 U         118-74-1Hexachlorobenzene       10 U         87-86-5Pentachlorophenol       25 U         85-01-8Phenanthrene       10 U         120-12-7Anthracene       10 U         86-74-8Carbazole       10 U         84-74-2Di-n-butylphthalate       10 U         129-00-0Pyrene       10 U         85-68-7Benzo(a) anthracene       10 U         218-01-9Chrysene       10 U         117-81-7Benzo(b) fluoranthene       10 U				
86-73-7Fluorene       10 U         100-01-64-Nitroaniline       25 U         534-52-14,6-Dinitro-2-methylphenol       25 U         86-30-6N-nitrosodiphenylamine       11 U         101-55-34-Bromophenyl-phenylether       10 U         118-74-1Hexachlorobenzene       10 U         87-86-5Pentachlorophenol       25 U         85-01-8Phenanthrene       10 U         120-12-7Anthracene       10 U         86-74-8Carbazole       10 U         84-74-2Di-n-butylphthalate       10 U         206-44-0	84-66-2	Diethylphthalate		
100-01-64-Nitroaniline       25 U         534-52-14,6-Dinitro-2-methylphenol       25 U         86-30-6N-nitrosodiphenylamine       (1)         101-55-34-Bromophenyl-phenylether       10 U         118-74-1Hexachlorobenzene       10 U         87-86-5Pentachlorophenol       25 U         85-01-8Phenanthrene       10 U         120-12-7Anthracene       10 U         84-74-2Di-n-butylphthalate       10 U         206-44-0Fluoranthene       10 U         129-00-0Pyrene       10 U         85-68-7Butylbenzylphthalate       10 U         91-94-13,3'-Dichlorobenzidine       10 U         56-55-3	7005-72-3	4-Curorophenyr-phenyrecher		
534-52-14,6-Dinitro-2-methylphenol       25 U         86-30-6N-nitrosodiphenylamine (1)       10 U         101-55-34-Bromophenyl-phenylether       10 U         118-74-1Hexachlorobenzene       10 U         87-86-5Pentachlorophenol       25 U         85-01-8Phenanthrene       10 U         120-12-7Anthracene       10 U         86-74-8Carbazole       10 U         84-74-2Di-n-butylphthalate       10 U         206-44-0Fluoranthene       10 U         129-00-0Pyrene       10 U         85-68-7Butylbenzylphthalate       10 U         91-94-13,3'-Dichlorobenzidine       10 U         218-01-9Chrysene       10 U         117-81-7bis(2-Ethylhexyl)phthalate       10 U         117-84-0	86-73-7	Fluorene		
86-30-6N-nitrosodiphenylamine (1)       10 U         101-55-34-Bromophenyl-phenylether       10 U         118-74-1Hexachlorobenzene       10 U         87-86-5Pentachlorophenol       25 U         85-01-8Phenanthrene       10 U         120-12-7Anthracene       10 U         86-74-8Carbazole       10 U         84-74-2Di-n-butylphthalate       10 U         206-44-0Fluoranthene       10 U         129-00-0Pyrene       10 U         85-68-7Butylbenzylphthalate       10 U         91-94-13,3'-Dichlorobenzidine       10 U         56-55-3Benzo(a) anthracene       10 U         218-01-9Chrysene       10 U         117-84-0				
101-55-34-Bromophenyl-phenylether       10 U         118-74-1Hexachlorobenzene       10 U         87-86-5Pentachlorophenol       25 U         85-01-8Phenanthrene       10 U         120-12-7Anthracene       10 U         86-74-8Carbazole       10 U         84-74-2Di-n-butylphthalate       10 U         206-44-0Fluoranthene       10 U         129-00-0Pyrene       10 U         85-68-7Butylbenzylphthalate       10 U         91-94-13,3'-Dichlorobenzidine       10 U         56-55-3	534-52-1	4,6-Dinitro-2-methylphenol		
118-74-1	86-30-6	N-nitrosodiphenylamine_(1)		
87-86-5Pentachlorophenol       25 U         85-01-8Phenanthrene       10 U         120-12-7Anthracene       10 U         86-74-8Carbazole       10 U         84-74-2Di-n-butylphthalate       10 U         206-44-0Fluoranthene       10 U         129-00-0Pyrene       10 U         85-68-7Butylbenzylphthalate       10 U         91-94-13,3'-Dichlorobenzidine       10 U         56-55-3Benzo(a) anthracene       10 U         218-01-9	101-55-3	4-Bromophenyl-phenylether		
85-01-8Phenanthrene       10 U         120-12-7Anthracene       10 U         86-74-8Carbazole       10 U         84-74-2Di-n-butylphthalate       10 U         206-44-0Fluoranthene       10 U         129-00-0Pyrene       10 U         85-68-7Butylbenzylphthalate       10 U         91-94-13,3'-Dichlorobenzidine       10 U         56-55-3Benzo(a) anthracene       10 U         218-01-9Chrysene       10 U         117-81-7bis(2-Ethylhexyl)phthalate       10 U         205-99-2Benzo(b)fluoranthene       10 U				
120-12-7Anthracene       10 U         86-74-8Carbazole       10 U         84-74-2Di-n-butylphthalate       10 U         206-44-0Fluoranthene       10 U         129-00-0Pyrene       10 U         85-68-7Butylbenzylphthalate       10 U         91-94-13,3'-Dichlorobenzidine       10 U         56-55-3Benzo(a) anthracene       10 U         218-01-9Chrysene       10 U         117-81-7bis(2-Ethylhexyl)phthalate       10 U         117-84-0Benzo(b)fluoranthene       10 U				
86-74-8				
84-74-2Di-n-butylphthalate       10 U         206-44-0Fluoranthene       10 U         129-00-0Fluoranthene       10 U         85-68-7Butylbenzylphthalate       10 U         91-94-13,3'-Dichlorobenzidine       10 U         56-55-3Benzo(a) anthracene       10 U         218-01-9Chrysene       10 U         117-81-7bis(2-Ethylhexyl)phthalate       10 U         117-84-0Benzo(b)fluoranthene       10 U			10	
206-44-0Fluoranthene       10 U         129-00-0Pyrene       10 U         85-68-7			10	Ŭ
206-44-0Fluoranthene       10 U         129-00-0Pyrene       10 U         85-68-7	84-74-2	Di-n-butylphthalate	10	U
85-68-7Butylbenzylphthalate       10 U         91-94-13,3'-Dichlorobenzidine       10 U         56-55-3Benzo(a) anthracene       10 U         218-01-9Chrysene       10 U         117-81-7bis(2-Ethylhexyl)phthalate       10 U         117-84-0Benzo(b)fluoranthene       10 U	206-44-0	Fluoranthene	10	U
85-68-7Butylbenzylphthalate       10 U         91-94-13,3'-Dichlorobenzidine       10 U         56-55-3Benzo(a) anthracene       10 U         218-01-9Chrysene       10 U         117-81-7bis(2-Ethylhexyl)phthalate       10 U         117-84-0Benzo(b)fluoranthene       10 U	129-00-0	Pyrene	10	U
91-94-13,3'-Dichlorobenzidine       10 U         56-55-3Benzo(a) anthracene       10 U         218-01-9Chrysene       10 U         117-81-7bis(2-Ethylhexyl)phthalate       10 U         117-84-0Benzo(b)fluoranthene       10 U	85-68-7	Butylbenzylphthalate	10	שׁו
56-55-3Benzo(a) anthracene       10 U         218-01-9Chrysene       10 U         117-81-7bis(2-Ethylhexyl)phthalate       10 U         117-84-0Benzo(b) fluoranthene       10 U	91-94-1	3,3'-Dichlorobenzidine	10	שו
218-01-9Chrysene       10 U         117-81-7bis(2-Ethylhexyl)phthalate       10 U         117-84-0				
117-81-7bis (2-Ethylhexyl) phthalate       10 U         117-84-0Di-n-octyl phthalate       10 U         205-99-2Benzo (b) fluoranthene       10 U				
117-84-0	117-81-7	bis(2-Ethylhexyl)phthalate		1
205-99-2Benzo(b) fluoranthene 10 U	117-84-0	Di-n-octvlphthalate	1	1 -
207 00 5 Delizo (k) fractament				1
50-32-8Benzo(a) pyrene 10 U			E .	
193-39-5Indeno(1,2,3-cd)pyrene 10 U				1
53-70-3Dibenzo(a,h)anthracene				1 -
191-24-2Benzo(g,h,i)perylene			1	1
10 0	191-24-2	belizo (g, ii, i) per yreile	10	١٠
- Cannot be separated from Diphenylamine	Cannot ha	roparated from Diphonulamina	l	

FORM I SV-2

EPA SAMPLE NO.

SDG No.: 00005

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW51-09 Lab Name: COMPUCHEM Contract: OLM03-REVS

Case No.: 34200 SAS No.: Lab Code: COMPU

Matrix: (soil/water) WATER Lab Sample ID: 945253

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045253B70

Date Received: 06/12/99 Level: (low/med) LOW

decanted: (Y/N) Date Extracted: 06/16/99 % Moisture:

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: Number TICs found: 30 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1 2 3 4 5 6 6 7 7 8 8 9 9 10 11 12 12 13 14 15 632 - 46 - 2 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 .	UNKNOWN UNKNOWN	4.49 4.60 4.91 5.58 6.43 6.60 6.78 7.81 7.88 8.39 8.39 8.39 9.37 10.65 10.79 11.77 11.90 12.54 12.60 12.73 13.09 14.34	21 17 23 10 9 54 94 6 7 17 9 34 18 7 22 14 23 21 8 5 6 12 7 14 20 6 5	

FORM I SV-TIC

和网络自由中特整部分制度的过程的管理的

MW51-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945253

Sample wt/vol: 1040 (g/mL) ML Lab File ID:

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_ Date Received: 06/12/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

319-84-6	0.048 0.048 0.048 0.048 0.048 0.048 0.048 0.096 0.096 0.096 0.096 0.096 0.0948 0.048 0.048 0.048 0.096	ממממממממממממממממממממ ממממממ
11141-16-5Aroclor-1232 53469-21-9Aroclor-1242 12672-29-6Aroclor-1248 11097-69-1Aroclor-1254	0.96 0.96 0.96	บ บ บ
11096-82-5Aroclor-1260	0.96	<u> </u>

 $\mathcal{L} = \{ \frac{1}{2} \sigma_{ij}^{-1} \mathcal{L}_{ij}^{-1} \mathcal{L}_{ij}^{-1} \}$ 

% Solids:

### I INORGANIC ANALYSES DATA SHEET

FPA	SAMPLE	NO
71 - 77	חדייים	TIO

Lab Name: COMPUCHEM_	Contract: ILM04.0	MW51-09
Lab Code: COMPU_	Case No.: 34200_ SAS No.:	SDG No.: 00005_
Matrix (soil/water):	WATER Lab Sampl	e ID: 945253
Level (low/med):	LOW Date Rece	eived: 06/12/99

Concentration Units (ug/L or mg/kg dry weight): UG/L\_\_\_\_

\_\_0.0

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	166	B		P
7440-36-0	Antimony	1.8	U.		
7440-38-2	Arsenic	2.0	Ū		$ P^- $
7440-39-3	Barium —	391			$ P^- $
7440-41-7	Beryllium	0.44	B		$ P^- $
7440-43-9	Cadmium	0.81	В		$ P^- $
7440-70-2	Calcium	131000			$ P_{\rm P} $
7440-47-3	Chromium	1.6	B		$ P^- $
7440-48-4	Cobalt	0.76	В		$ P^- $
7440-50-8	Copper	1.7	В		$ P^- $
7439-89-6	Iron	7400			P_
7439-92-1	Lead	1.0	Ū		P
7439-95-4	Magnesium	62600	ļ		$ P^- $
7439-96-5	Manganese	88.6	-		P_
7439-97-6	Mercury	0.05	Ū		CV
7440-02-0	Nickel	3.1	В		P
7440-09-7	Potassium	2410	В		P_
7782-49-2	Selenium_	3.1	В		P_
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	98800	_		P
7440-28-0	Thallium_	4.1	Ū		P_
7440-62-2	Vanadium_	0.77	В		P_
7440-66-6	Zinc	1.1	U		P_
	Cyanide	4.7	U		CA
			<u>                                     </u>		l_

Color Be	efore:	COLORLESS		Clarity	Before:	CLEAR_		Texture:	
Color A	Eter:	COLORLESS		Clarity	After:	CLEAR_		Artifacts:	
Comments	5:								
			<u>·</u>				· _		

FORM I - IN

ILM04.0

### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

Q

MW52-09 Contract: OLM03-REVS Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945688

Lab File ID: CN045688B57 Sample wt/vol: 5.0 (g/mL) mL

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. Date Analyzed: 06/30/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 10.0

COMPOUND

CAS NO.

Soil Aliquot Volume: \_\_\_\_(uL Soil Extract Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

74-87-3------Chloromethane 100 U 74-83-9-----Bromomethane 100 U 75-01-4-----Vinyl Chloride 100 U 75-00-3-----Chloroethane 100 U 75-09-2-----Methylene Chloride\_\_\_\_ 100 U 67-64-1-----Acetone 100 U 75-15-0-----Carbon Disulfide 100 U 75-35-4-----1,1-Dichloroethene\_ 75-34-3-----1,1-Dichloroethane\_ 100 U 100 U 67-66-3-----Chloroform 100 U 107-06-2----1,2-Dichloroethane 100 U 78-93-3----2-Butanone 100 U 71-55-6----1,1,1-Trichloroethane 100 U 56-23-5-----Carbon Tetrachloride 100 U 75-27-4-----Bromodichloromethane 100 U 78-87-5----1, 2-Dichloropropane 100 U 10061-01-5----cis-1,3-Dichloropropene\_\_\_ 100 U 79-01-6-----Trichloroethene 100 0 124-48-1-----Dibromochloromethane 100 U 79-00-5----1,1,2-Trichloroethane 100 U 71-43-2-----Benzene 100 U 10061-02-6----trans-1,3-Dichloropropene 100 U 75-25-2-----Bromoform 100 U 108-10-1-----4-Methyl-2-Pentanone 100 U 591-78-6----2-Hexanone 100 0 127-18-4-----Tetrachloroethene 100 U 100 U 79-34-5-----1,1,2,2-Tetrachloroethane 108-88-3-----Toluene 100 U 108-90-7-----Chlorobenzene 100 U 100-41-4-----Ethylbenzene 100 U 100-42-5-----Styrene 100 U 1330-20-7-----Xylene (Total)

540-59-0----1,2-Dichloroethene (total)

100 U

- 100 U

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW52-09	

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00007

Matrix: (soil/water) WATER

Lab Sample ID: 945688

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cn045688b57

Level: (low/med) LOW

Date Received: 06/16/99

% Moisture: not dec.

Date Analyzed: 06/30/99

GC Column: EOUITY624 ID: 0.53 (mm)

Dilution Factor: 10.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_\_(uL

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number TICs found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	. ~ .
1. 60-29-7 2. 3. 109-99-9	ETHER UNKNOWN ALCOHOL FURAN, TETRAHYDRO-	7.56 9.57 11.98	10940 125	NJ
6. 7.				
10. 11. 12.				
13. 14. 15. 16.				
19. 20.				
22. 23. 24. 25.				
27. 28. 29.				

FORM I VOA-TIC

OLM03.

MW52-09

Contract: OLM03-REVS Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945688

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045688A66

Date Received: 06/16/99 Level: (low/med) LOW

% Moisture: decanted: (Y/N) \_\_\_ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0

CAS NO.	COMPOUND	(ug/L or ug/kg	g) 0G/L	Q ,
95-57-8 541-73-1 106-46-7 95-50-1 95-48-7 108-60-1 106-44-5 621-64-7 98-95-3 98-95-3 105-67-9 111-91-1 120-83-2 120-83-2 120-82-1 91-20-3 91-20-3 91-57-6 91-57-6 77-47-4	bis(2-Chloroethy2-Chlorophenol1,3-Dichlorobenz1,4-Dichlorobenz1,2-Dichlorobenz2,Methylphenol2,2'-oxybis(1-Ch4-MethylphenolN-Nitroso-di-n-pHexachloroethaneIsophorone2,4-Dimethylphen2,4-Dimethylphen2,4-Dichlorophen1,2,4-Trichlorob1,2,4-Trichlorob1,2,4-Trichlorob1,2,4-Trichlorob1,2,4-Trichlorob1,2,4-Trichlorob1,2,4-Trichlorob1,2,4-Trichlorob1,2,4-Trichlorob1,2,4-Trichlorob1,2,4-Trichlorob1,2,4-Trichlorob	ene_ene_ene_ene_ene_ene_ene_ene_ene_ene	g) UG/L	10 U U U U U U U U U U U U U U U U U U U
59-50-7 91-57-6 77-47-4 88-06-2 95-95-4 91-58-7 88-74-4 131-11-3 208-96-8 99-09-2	4-Chloro-3-methy 2-Methylnaphthal Hexachlorocyclop	lphenol_ene_entadiene_henol_henol_ene_ene_ene_ene_ene_ene_ene_ene_ene_en		10 U 10 U 10 U

MW52-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945688

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045688A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/14/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

		<del></del>	
100-02-7 132-64-9 121-14-2 84-66-2 7005-72-3 86-73-7	2,4-Dinitrophenol 4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene Diethylphthalate 4-Chlorophenyl-phenylether Fluorene	25 25 10 10 10 10 10 25	ט ט ט ט ט
534-52-1 86-30-6 101-55-3 118-74-1 87-86-5	4,6-Dinitro-2-methylphenol	25 10 10 10 25	U U U U
120-12-7 86-74-8 84-74-2	PhenanthreneAnthraceneCarbazoleDi-n-butylphthalateFluoranthene	10 10 10 10 10 10	U U U U
85-68-7 91-94-1 56-55-3 218-01-9	Butylbenzylphthalate 3,3'-Dichlorobenzidine Benzo(a)anthracene	10 10 10 10 10 6	U U U
117-84-0 205-99-2 207-08-9 50-32-8 193-39-5	Di-n-octylphthalateBenzo(b)fluorantheneBenzo(k)fluorantheneBenzo(a)pyreneIndeno(1,2,3-cd)pyrene	10 10 10 10 10	U U U U
53-70-3	Dibenzo(a,h)anthracene Benzo(g,h,i)perylene separated from Diphenylamine	10	U

FORM I SV-2

OLM03.

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW52-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Code: COMPU

Case No.: 34200 SAS No.:

SDG No.: 00007

Matrix: (soil/water) WATER

Lab Sample ID: 945688

Sample wt/vol:

Lab File ID: GH045688A66

1000 (g/mL) ML

Date Received: 06/16/99

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 07/14/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 30

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.	UNKNOWN UNKNOWN	====== 5.42 6.05 6.11 6.35 7.07 7.42 7.63 7.95 8.21 9.24 9.28 9.59 9.68 10.63 11.38 12.15	5 19 14 62 11 23 110 4 5 5 4 5 6 4 11 6 15 10	 

# 1D PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW52-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU

Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER

Lab Sample ID: 945688

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

Moisture: decanted: (Y/N)

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 06/16/99

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 06/25/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

319-84-6beta-BHC 319-85-7beta-BHC 319-86-8beta-BHC 58-89-9gamma-BHC (Lindane) 76-44-8Aldrin 1024-57-3Heptachlor epoxide 959-98-8Endosulfan I 60-57-1Dieldrin 72-55-9Endrin 33213-65-9Endosulfan II 72-54-8Endosulfan II 72-54-8	1.0	חממממממנים ממממממממממנים
11141-16-5Aroclor-1232	1.0 1.0 1.0	U U U

FORM I PEST

#### 1 INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO
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	•	INORGANIC A	ANALYSES DATA S	SHEEI	
Lab Name: COMP	UCHEM		Contract: II	LM04.0	MW52-09
Lab Code: COMP	U_ Cas	se No.: 342	200_ SAS No.:	:	SDG No.: 00007_
Matrix (soil/wa	ater): WATE	ર		Lab Samp	le ID: 945688
Level (low/med	): LOW	_	·	Date Rec	eived: 06/16/99
% Solids:	0.0	)			
Cor	ncentration	Units (ug/	L or mg/kg dry	y weight)	: UG/L
	CAS No.	Analyte	Concentration	C Q	M
	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-96-5 7439-96-5 7439-96-5 7439-97-6 7440-02-0 7440-02-0 7440-23-5 7440-28-0 7440-66-6	Aluminum_ Antimony_ Arsenic_ Barium_ Beryllium Cadmium_ Calcium_ Chromium_ Cobalt_ Copper_ Iron_ Lead_ Magnesium Manganese Mercury_ Nickel_ Potassium Selenium_ Silver_ Sodium_ Thallium_ Vanadium_ Zinc_ Cyanide	139 0.02 5.0	B B B B B B B B B B B B B B B B B B B	P P P P P P P P P P P P P P P P P P P
Color Before:	COLORLESS		ty Before: CLE		Texture:
Color After:	COLORLESS	Clari	ty After: CLE	AR_	Artifacts:
Comments:					

FORM I - IN

### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

COMPOUND

CAS NO.

EPA SAMPLE NO.

MW53-09 Lab Name: COMPUCHEM Contract: OLM03-REVS Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007 Matrix: (soil/water) WATER Lab Sample ID: 945704 Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045704B57 Level: (low/med) LOW Date Received: 06/16/99 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/30/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_ (uL CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L 74-87-3------Chloromethane 10 U 74-83-9-----Bromomethane 10 U 75-01-4-----Vinyl Chloride 10 U 75-00-3-----Chloroethane 10 U 75-09-2-----Methylene Chloride 100 30 B 67-64-1-----Acetone 75-15-0-----Carbon Disulfide 10 U 75-35-4----1,1-Dichloroethene 10 U 75-34-3-----1,1-Dichloroethane 10 U 67-66-3------Chloroform 10 U 10 U 107-06-2----1,2-Dichloroethane\_\_\_\_ 78-93-3-----2-Butanone 3 | JB 71-55-6----1,1,1-Trichloroethane\_\_\_ 10 U 56-23-5-----Carbon Tetrachloride 10 U 75-27-4-----Bromodichloromethane 10 U 78-87-5-----1,2-Dichloropropane 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6-----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5----1,1,2-Trichloroethane 10 U 71-43-2----Benzene 4 J 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2-----Bromoform 10 U 108-10-1----4-Methyl-2-Pentanone 3 | JB 591-78-6----2-Hexanone 127-18-4-----Tetrachloroethene 10 U 10 U 79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 1 J 108-90-7-----Chlorobenzene 10 U 100-41-4-----Ethylbenzene 10 U 100-42-5------Styrene 1330-20-7------Xylene (Total) 10 U 10 I U 540-59-0-----1,2-Dichlorcethene (total)\_ 10 U

FORM I VOA

# 1E

LOW

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW53-09

SDG No.: 00007

Lab Name: COMPUCHEM

Contract: OLM03-REVS

SAS No.:

Matrix: (soil/water) WATER

Lab Sample ID: 945704

Sample wt/vol:

Lab Code: COMPU

Case No.: 34200

Lab File ID: cn045704b57

5.0 (g/mL) mL

Level: (low/med)

Date Received: 06/16/99

% Moisture: not dec.

Date Analyzed: 06/30/99

GC Column: EQUITY624 ID: 0.53

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL

Number TICs found: 7

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

				I
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	0
==========	=======================================	======	========	=====
1. 109-87-5	METHANE, DIMETHOXY-	8.18	13	
2.	UNKNOWN ALCOHOL	9.55	17	
3.	UNKNOWN	11.63 11.97	. 8	J
4. 109-99-9 5.	FURAN, TETRAHYDRO- UNKNOWN	13.13	19	
6. 123-91-1	1,4-DIOXANE	14.74	30	
7. 873-94-9	CYCLOHEXANONE, 3,3,5-TRIMETH			NJ
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#### 1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW53-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945704

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ045704A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: decanted: (Y/N) Date Extracted:06/22/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/15/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND CONCENTRATION UNITS:

108-95-2				
95-57-82-Chlorophenol	108-95-2	Phenol	10	U
95-57-82-Chlorophenol	111-44-4	bis(2-Chloroethyl)ether	10	υ
541-73-11, 3-Dichlorobenzene       10 U         106-46-71, 4-Dichlorobenzene       10 U         95-50-11, 2-Dichlorobenzene       10 U         95-48-72-Methylphenol       10 U         108-60-12, 2'-oxybis (1-Chloropropane)       10 U         106-44-54-Methylphenol       10 U         621-64-7N-Nitroso-di-n-propylamine       10 U         67-72-1Hexachloroethane       10 U         98-95-3Nitrobenzene       10 U         78-59-1	95-57-8	2-Chlorophenol	10	lσ
106-46-7	541-73-1	1,3-Dichlorobenzene	10	U
95-50-11, 2-Dichlorobenzene   10 U   95-48-72-Methylphenol   10 U   108-60-12, 2'-oxybis (1-Chloropropane)   10 U   106-44-54-Methylphenol   10 U   621-64-7N-Nitroso-di-n-propylamine   10 U   67-72-1Hexachloroethane   10 U   98-95-3Nitrobenzene   10 U   98-95-3Nitrobenzene   10 U   10 U   105-67-92-Nitrophenol   10 U   105-67-92-A-Dichlorophenol   10 U   111-91-1bis (2-Chloroethoxy) methane   10 U   120-83-22-(A-Dichlorophenol   10 U   120-83-2Naphthalene   10 U   106-47-8Naphthalene   10 U   106-47-8			10	ט
95-48-72-Methylphenol 10 U 108-60-12,2'-oxybis(1-Chloropropane) 10 U 106-44-54-Methylphenol 10 U 621-64-7N-Nitroso-di-n-propylamine 10 U 67-72-1Hexachloroethane 10 U 98-95-3Nitrobenzene 10 U 78-59-1Isophorone 10 U 105-67-92,4-Dimethylphenol 10 U 111-91-1bis(2-Chloroethoxy)methane 10 U 120-83-22,4-Dichlorophenol 10 U 120-82-11,2,4-Trichlorobenzene 10 U 106-47-8A-Chloroaniline 10 U 106-47-84-Chloro-3-methylphenol 10 U 59-50-74-Chloro-3-methylphenol 10 U 91-57-62-Methylnaphthalene 10 U 77-47-4Hexachlorocyclopentadiene 10 U 88-06-22,4,6-Trichlorophenol 10 U 95-95-42,4,5-Trichlorophenol 10 U 95-95-42,4,5-Trichlorophenol 10 U 91-58-72-Chloronaphthalene 10 U 88-74-42-Nitroaniline 10 U 88-74-42-Nitroaniline 10 U 93-96-8Acenaphthylene 10 U 99-09-23-Nitroaniline 10 U 99-09-23-Nitroaniline 10 U				
108-60-12,2'-oxybis(1-Chloropropane)       10         106-44-54-Methylphenol       10         621-64-7Nitroso-di-n-propylamine       10         67-72-1Hexachloroethane       10         98-95-3Nitrobenzene       10         10       10         88-75-5				
106-44-54-Methylphenol       10 U         621-64-7N-Nitroso-di-n-propylamine       10 U         67-72-1Hexachloroethane       10 U         98-95-3Nitrobenzene       10 U         78-59-1Isophorone       10 U         88-75-52-Nitrophenol       10 U         105-67-92,4-Dimethylphenol       10 U         111-91-1bis (2-Chloroethoxy) methane       10 U         120-83-22,4-Dichlorophenol       10 U         120-82-11,2,4-Trichlorophenol       10 U         106-47-8Naphthalene       10 U         106-47-84-Chloroaniline       10 U         87-68-3Hexachlorobutadiene       10 U         59-50-74-Chloro-3-methylphenol       10 U         97-47-4	108-60-1	2,2'-oxybis(1-Chloropropane)		1
621-64-7Nitroso-di-n-propylamine       10 U         67-72-1Hexachloroethane       10 U         98-95-3Nitrobenzene       10 U         78-59-1Isophorone       10 U         88-75-52-Nitrophenol       10 U         105-67-92,4-Dimethylphenol       10 U         111-91-1bis(2-Chloroethoxy)methane       10 U         120-83-22,4-Dichlorophenol       10 U         120-82-11,2,4-Trichlorobenzene       10 U         91-20-3Naphthalene       10 U         106-47-84-Chloroaniline       10 U         87-68-3Hexachlorobutadiene       10 U         89-50-74-Chloro-3-methylphenol       10 U         91-57-62-Methylnaphthalene       10 U         88-06-22,4,6-Trichlorophenol       10 U         95-95-42,4,5-Trichlorophenol       25 U         91-58-72-Chloronaphthalene       10 U         88-74-42-Nitroaniline       25 U         131-11-3Dimethylphthalate       10 U         208-96-8Acenaphthylene       10 U         606-20-23-Nitroaniline       10 U         99-09-23-Nitroaniline       25 U	106-44-5	4-Methylphenol		
67-72-1	621-64-7	N-Nitroso-di-n-propylamine		,
98-95-3Nitrobenzene       10 U         78-59-1Isophorone       10 U         88-75-52-Nitrophenol       10 U         105-67-92,4-Dimethylphenol       10 U         111-91-1bis (2-Chloroethoxy) methane       10 U         120-83-22,4-Dichlorophenol       10 U         120-82-11,2,4-Trichlorobenzene       10 U         91-20-3Naphthalene       10 U         106-47-84-Chloroaniline       10 U         87-68-3Hexachlorobutadiene       10 U         87-68-34-Chloro-3-methylphenol       10 U         91-57-62-Methylnaphthalene       10 U         88-06-22,4,6-Trichlorophenol       10 U         95-95-42,4,5-Trichlorophenol       25 U         91-58-72-Chloronaphthalene       10 U         88-74-42-Nitroaniline       25 U         131-11-3Dimethylphthalate       10 U         208-96-8Acenaphthylene       10 U         606-20-23-Nitroaniline       10 U         99-09-23-Nitroaniline       25 U	67-72-1	Hexachloroethane		1
78-59-1	98-95-3	Nitrobenzene	10	U
88-75-52-Nitrophenol       10 U         105-67-92,4-Dimethylphenol       10 U         111-91-1bis (2-Chloroethoxy) methane       10 U         120-83-22,4-Dichlorophenol       10 U         120-82-11,2,4-Trichlorobenzene       10 U         91-20-3Naphthalene       10 U         106-47-8Naphthalene       10 U         107-68-3				
105-67-92,4-Dimethylphenol       10 U         111-91-1bis (2-Chloroethoxy) methane       10 U         120-83-22,4-Dichlorophenol       10 U         120-82-11,2,4-Trichlorobenzene       10 U         91-20-3Naphthalene       10 U         106-47-8	88-75-5	2-Nitrophenol	10	U
111-91-1bis (2-Chloroethoxy) methane       10 U         120-83-22, 4-Dichlorophenol       10 U         120-82-11, 2, 4-Trichlorobenzene       10 U         91-20-3Naphthalene       10 U         106-47-84-Chloroaniline       10 U         87-68-3Hexachlorobutadiene       10 U         59-50-74-Chloro-3-methylphenol       10 U         91-57-62-Methylnaphthalene       10 U         77-47-4Hexachlorocyclopentadiene       10 U         88-06-22, 4, 6-Trichlorophenol       10 U         95-95-42, 4, 5-Trichlorophenol       25 U         91-58-72-Chloronaphthalene       10 U         88-74-42-Nitroaniline       25 U         131-11-3Dimethylphthalate       10 U         208-96-8Acenaphthylene       10 U         606-20-23-Nitroaniline       25 U	105-67-9	2,4-Dimethylphenol		
120-83-22,4-Dichlorophenol       10         120-82-11,2,4-Trichlorobenzene       10         91-20-3Naphthalene       10         106-47-8Naphthalene       10         87-68-3	111-91-1	bis(2-Chloroethoxy) methane		1
120-82-11,2,4-Trichlorobenzene       10         91-20-3Naphthalene       10         106-47-84-Chloroaniline       10         87-68-3Hexachlorobutadiene       10         59-50-74-Chloro-3-methylphenol       10         91-57-62-Methylnaphthalene       10         77-47-4			10	ט
91-20-3Naphthalene       10 U         106-47-84-Chloroaniline       10 U         87-68-3Hexachlorobutadiene       10 U         59-50-74-Chloro-3-methylphenol       10 U         91-57-62-Methylnaphthalene       10 U         77-47-4	120-82-1	1,2,4-Trichlorobenzene		l.
106-47-84-Chloroaniline       10 U         87-68-3Hexachlorobutadiene       10 U         59-50-74-Chloro-3-methylphenol       10 U         91-57-62-Methylnaphthalene       10 U         77-47-4Hexachlorocyclopentadiene       10 U         88-06-22,4,6-Trichlorophenol       10 U         95-95-42,4,5-Trichlorophenol       25 U         91-58-72-Chloronaphthalene       10 U         88-74-4Dimethylphthalate       10 U         131-11-3Dimethylphthalate       10 U         208-96-8Acenaphthylene       10 U         606-20-23-Nitroaniline       25 U	91-20-3	Naphthalene	10	U
87-68-3	106-47-8	4-Chloroaniline		1
91-57-62-Methylnaphthalene       10 U         77-47-4Hexachlorocyclopentadiene       10 U         88-06-22,4,6-Trichlorophenol       10 U         95-95-42,4,5-Trichlorophenol       25 U         91-58-72-Chloronaphthalene       10 U         88-74-42-Nitroaniline       25 U         131-11-3Dimethylphthalate       10 U         208-96-8Acenaphthylene       10 U         606-20-22,6-Dinitrotoluene       10 U         99-09-23-Nitroaniline       25 U				1
91-57-62-Methylnaphthalene       10 U         77-47-4Hexachlorocyclopentadiene       10 U         88-06-22,4,6-Trichlorophenol       10 U         95-95-42,4,5-Trichlorophenol       25 U         91-58-72-Chloronaphthalene       10 U         88-74-42-Nitroaniline       25 U         131-11-3Dimethylphthalate       10 U         208-96-8Acenaphthylene       10 U         606-20-22,6-Dinitrotoluene       10 U         99-09-23-Nitroaniline       25 U	59-50-7	4-Chloro-3-methylphenol	10	שו
77-47-4	91-57-6	2-Methylnaphthalene	10	U
88-06-22,4,6-Trichlorophenol       10 U         95-95-42,4,5-Trichlorophenol       25 U         91-58-72-Chloronaphthalene       10 U         88-74-42-Nitroaniline       25 U         131-11-3Dimethylphthalate       10 U         208-96-8Acenaphthylene       10 U         606-20-22,6-Dinitrotoluene       10 U         99-09-23-Nitroaniline       25 U	77-47-4	Hexachlorocyclopentadiene	10	U
95-95-42,4,5-Trichlorophenol       25 U         91-58-72-Chloronaphthalene       10 U         88-74-42-Nitroaniline       25 U         131-11-3Dimethylphthalate       10 U         208-96-8Acenaphthylene       10 U         606-20-22,6-Dinitrotoluene       10 U         99-09-23-Nitroaniline       25 U	88-06-2	2,4,6-Trichlorophenol	10	U
91-58-72-Chloronaphthalene	95-95-4	2,4,5-Trichlorophenol	25	U .
88-74-42-Nitroaniline       25 U         131-11-3Dimethylphthalate       10 U         208-96-8Acenaphthylene       10 U         606-20-22,6-Dinitrotoluene       10 U         99-09-23-Nitroaniline       25 U	91-58-7	2-Chloronaphthalene	10	U
131-11-3Dimethylphthalate       10 U         208-96-8Acenaphthylene       10 U         606-20-22,6-Dinitrotoluene       10 U         99-09-23-Nitroaniline       25 U	88-74-4	2-Nitroaniline		
208-96-8Acenaphthylene       10 U         606-20-22,6-Dinitrotoluene       10 U         99-09-23-Nitroaniline       25 U	131-11-3	Dimethylphthalate		
606-20-22,6-Dinitrotoluene 10 U 99-09-23-Nitroaniline 25 U	208-96-8	Acenaphthylene		
99-09-23-Nitroaniline 25 U	606-20-2	2,6-Dinitrotoluene		
83-32-9Acenaphthene	99-09-2	3-Nitroaniline		
	83-32-9	Acenaphthene		1

FORM I SV-1

OLM03.0

ab Code: COMPU

GPC Cleanup: (Y/N) N

SDG No.: 00007

MW53-09 Lab Name: COMPUCHEM Contract: OLM03-REVS

Case No.: 34200 SAS No.: Matrix: (soil/water) WATER Lab Sample ID: 945704

1000 (q/mL) ML Lab File ID: Sample wt/vol: GJ045704A66

Date Received: 06/16/99 Level: (low/med) LOW

decanted: (Y/N) Date Extracted: 06/22/99 % Moisture:

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/15/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

:Hq

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0

25 U 51-28-5----2,4-Dinitrophenol 100-02-7----4-Nitrophenol 25 U 132-64-9-----Dibenzofuran 10 U 121-14-2----2,4-Dinitrotoluene 10 U 84-66-2-----Diethylphthalate 10 0 7005-72-3-----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 10 U 100-01-6-----4-Nitroaniline 25 U 25 U 534-52-1-----4,6-Dinitro-2-methylphenol 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3-----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 U 87-86-5-----Pentachlorophenol 25 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8-----Carbazole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1----3,3'-Dichlorobenzidine 10 U 56-55-3-----Benzo(a)anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 14 117-84-0-----Di-n-octylphthalate\_ 205-99-2-----Benzo(b) fluoranthene 10 ប៊ 10 U 207-08-9-----Benzo(k)fluoranthene 10 U 50-32-8-----Benzo(a) pyrene 10 U 193-39-5----Indeno(1,2,3-cd)pyrene 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 1 191-24-2----Benzo(g,h,i)perylene\_\_\_\_ 10 U (1) - Cannot be separated from Diphenylamine

FORM I SV-2

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW53-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00007

Matrix: (soil/water) WATER

Lab Sample ID: 945704

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: GJ045704A66

Level: (low/med)

Date Received: 06/16/99

% Moisture: \_\_\_ decanted: (Y/N)\_\_\_

LOW

1000 (uL)

Date Extracted:06/22/99

Concentrated Extract Volume:

Date Analyzed: 07/15/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

: Hq

Number TICs found: 32

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 5. 20324-32-7 6. 110-98-5 7. 8.	UNKNOWN (BC) TRICHLOROPROPENE (BC) UNKNOWN UNKNOWN 2-PROPANOL, 1-(2-METHOXY-1-M 2-PROPANOL, 1,1'-OXYBIS- UNKNOWN UNKNOWN	5.21 5.32 5.40 5.54 6.00 6.03 6.96 7.35	53 29 23 15	JB J J NJ NJ J
9. 10. 11. 12. 13. 14. 15. 16. 17.	UNKNOWN UNKNOWN CARBOXYLIC ACID UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN	7.58 7.80 8.33 8.47 8.54 8.75 9.14 9.47 9.63 9.79	320 16 34 27 12 8 12 11 11	J J J J J J J J J J J J J J J J J J J
19. 20. 21. 22. 23. 24. 25. 101-10-0 26. 27. 28. 29. 30.	UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN PROPANOIC ACID, 2-(3-CHLOROP UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN	10.07 10.54 10.59 11.12 11.26 11.40 12.05 12.20 12.57 13.34 14.69 14.76	8 10 10 16	ל ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה

FORM I SV-TIC

OLM03.0

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW53-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00007

Matrix: (soil/water) WATER

Lab Sample ID: 945704

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: GJ045704A66

Level:

(low/med) LOW Date Received: 06/16/99

% Moisture:

\_\_\_\_\_decanted: (Y/N)\_\_\_

Date Extracted:06/22/99

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 07/15/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 32

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1. 2. 3	UNKNOWN UNKNOWN	14.94	49	J
4 5				
8 9				
12				
14. 15. 16. 17.				
19. 20.				
21. 22. 23. 24.				
25				
28. 29. 30.				

FORM I SV-TIC

OLM03.0

EPA SAMPLE NO.

MW53-09

Lab Name: COMPUCHEM Contrac: OLM03-REVS Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007 Matrix: (soil/water) WATER Lab Sample ID: 945704 Sample wt/vol: 1000 (g/mL) ML Lab File ID: % Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Received: 06/16/99 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/18/99 Concentrated Extract Volume: 10000(uL) Date Analyzed: 06/25/99 Injection Volume: 2.0(uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 319-84-6-----alpha-BHC 0.050 U 319-85-7-----beta-BHC 0.050 U 319-86-8-----delta-BHC 0.0082 J 58-89-9-----gamma-BHC (Lindane) 0.050 U 76-44-8------Heptachlor 0.0085 JP 309-00-2-----Aldrin 0.050 U 1024-57-3-----Heptachlor epoxide 0.050 U 959-98-8-----Endosulfan I 0.050 U 60-57-1-----Dieldrin 0.10 U 72-55-9-----4,4'-DDE 0.10 0 72-20-8-----Endrin 0.10 U 33213-65-9-----Endosulfan II 0.10 U 0.10 U 72-54-8-----4,4'-DDD 1031-07-8-----Endosulfan sulfate 0.10 U 50-29-3-----4,4'-DDT 0.10 U 72-43-5-----Methoxychlor 0.50 U 53494-70-5----Endrin ketone 0.0069 JP 7421-93-4----Endrin aldehyde 0.10 U 5103-71-9-----alpha-Chlordane 0.050 U 5103-74-2----gamma-Chlordane 0.050 U

FORM I PEST

8001-35-2-----Toxaphene

12674-11-2----Aroclor-1016

11104-28-2----Aroclor-1221

11141-16-5-----Aroclor-1232

53469-21-9----Aroclor-1242

12672-29-6----Aroclor-1248

11097-69-1-----Aroclor-1254

11096-82-5----Aroclor-1260

5.0 U

1.0 U

2.0 0

1.0 U

1.0 U

1.000

1.0 U

1.0 U

# INORGANIC ANALYSES DATA SHEET

עמים	CAMDID	NTO
LPA	SAMPLE	· MO

Lab Name: COMPI	JCHEM		Contract: Il	ĽΜ(	04.0		MW53-09
Lab Code: COMP	J_ Cas	se No.: 342	SAS No.	: _	<u> </u>	SI	DG No.: 00007_
Matrix (soil/wa	ater): WATE	ર		Lā	ab Sampl	Le :	ID: 945704
Level (low/med)	LOW_	_		Da	ate Rece	eive	ed: 06/16/99
% Solids:	0.0	)					
Cor	CAS No.  7429-90-5 7440-36-0 7440-38-2 7440-39-3	Analyte Aluminum Antimony Arsenic Barium	229 3.3 3.4 1420	C - B B		M P P P P P P P P P P P P P P P P P P P	G/L
	7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8	Beryllium Cadmium Calcium Chromium Cobalt Copper		 В В В В В		P	

1.0 \U

25800

93200

83.9

20900

339000

0.08 B

8.6 B

3.1 T

 $\overline{\mathbf{U}}$ 

0.30 U

4.1

1.9 B

1.5 B

4.7 U

 $_{
m P}^-$ 

P P P P

 $C\overline{V}$ 

P\_ P

 $_{\rm P}^-$ 

P\_  $_{\rm P}^{-}$ 

 $P^{-}$  $_{
m P}^-$ 

P

 $C\overline{A}$ 

Magnesium

Manganese

Potassium

Selenium

Thallium

Vanadium\_

Mercury

Nickel

Silver

Sodium\_

Zinc Cyanide

Iron

Lead

7439-89-6

7439-92-1 7439-95-4

7439-96-5

7439-97-6

7440-02-0

7440-09-7

7782-49-2

7440-22-4

7440-23-5

7440-28-0

7440-62-2 7440-66-6

Clarity Before: CLEAR Texture: Color Before: COLORLESS Clarity After: Artifacts: Color After: COLORLESS CLEAR Comments:

FORM I - IN

#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMW54R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944688

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044688A57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

74-87-3Chloromethane	10 U
74-83-9Bromomethane	10 0
75-01-4Vinyl Chloride	10 0
75-00-3Chloroethane	10 0
75-09-2Methylene Chloride	3 J
67-64-1Acetone	6 JB
75-15-0Carbon Disulfide	10 U
	10 0
75-35-41,1-Dichloroethene	
75-34-31,1-Dichloroethane	10 U
67-66-3Chloroform	10 U
107-06-21,2-Dichloroethane	10 U
78-93-32-Butanone	10 U
71-55-61,1,1-Trichloroethane	10 U
56-23-5Carbon Tetrachloride	10 U
75-27-4Bromodichloromethane	. 10 U
78-87-51,2-Dichloropropane	10 U
10061-01-5cis-1,3-Dichloropropene	10 U
79-01-6Trichloroethene	10 U
124-48-1Dibromochloromethane	10 U
79-00-51,1,2-Trichloroethane	10 U
71-43-2Benzene	1 J
10061-02-6trans-1,3-Dichloropropene	10 U
75-25-2Bromoform	10 U
108-10-14-Methyl-2-Pentanone	10 U
591-78-62-Hexanone	10 l U
127-18-4Tetrachloroethene	10 U
79-34-51,1,2,2-Tetrachloroethane	10 U
108-88-3Toluene	10 U
108-90-7Chlorobenzene	10 0
100-41-4Ethylbenzene	10 U
100-42-5Styrene	10 U
1330-20-7Xylene (Total)	10 0
540-59-01,2-Dichloroethene (total)	10 0
1,2 pictionoccinente (cocar)	1010

FORM I VOA

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW54R-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944688

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: cn044688a57

Level: (low/med) LOW

Date Received: 06/11/99

% Moisture: not dec.

Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:\_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 75-65-0 2.	2-PROPANOL, 2-METHYL-	9.55	6	NJ ———
3. 4. 5.				
6 7 8				
9. 10. 11.				
13. 14.				
15. 16. 17.				
18. 19. 20.				
21. 22. 23.				
24		_		-
27. 28.				
29. 30.				

ACSGWMW54R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944688

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044688A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: decanted: (Y/N) Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

injection volume. 2.0 (an)

pH:

GPC Cleanup:

(Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

FORM I SV-1

EPA SAMPLE NO.

ACSGWMW54R-09

Lab Name: COMPUCHEM Cc tract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944688

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044688A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

51-28-5-----2,4-Dinitrophenol 25 U 10 | U 10 U 86-73-7-----Fluorene 10 U 100-01-6-----4 Nitroaniline 25 U 534-52-1-----4,6-Dinitro-2-methylphenol\_ 25 U 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 U 87-86-5----Pentachlorophenol 25 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8-----Carbazole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1-----3,3'-Dichlorobenzidine 10 U 56-55-3-----Benzo(a)anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 10 U 117-84-0-----Di-n-octylphthalate 10 U 205-99-2----Benzo (b) fluoranthene 10 U 207-08-9-----Benzo(k) fluoranthene 10 U 50-32-8-----Benzo (a) pyrene 10 U 193-39-5----Indeno(1,2,3-cd)pyrene 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 U 191-24-2----Benzo(g,h,i)perylene 10 U (1) - Cannot be separated from Diphenylamine

FORM I SV-2

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

ACSGWMW54R-09

Tab Name: COMPTICHEM

Contract: OLM03-REVS

Lab Code: COMPU

Case No.: 34200 SAS No.:

SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944688

Sample wt/vol:

1000

LOW

(g/mL) ML

Lab File ID:

GH044688A70

Level: (low/med)

Concentrated Extract Volume:

Date Received: 06/11/99

% Moisture:

decanted: (Y/N)

1000(uL)

Date Extracted:06/14/99 Date Analyzed: 07/20/99

Injection Volume:

2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 14

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

1. UNKNOWN SILOXANE 6.86 150 J 2. UNKNOWN (BC) 7.15 17 JB 3. UNKNOWN 7.43 71 J 4. UNKNOWN 8.40 34 J 5. UNKNOWN SILOXANE 8.53 24 J 6. UNKNOWN 9.75 18 J 7. UNKNOWN 10.29 67 J 8. UNKNOWN 10.29 67 J 9. UNKNOWN 11.20 19 J 10. UNKNOWN 11.20 19 J 10. UNKNOWN 12.23 12 J 11. UNKNOWN 12.23 12 J 11. UNKNOWN 12.60 20 JB 12. UNKNOWN 14.75 60 J 13. UNKNOWN 18C) 12.60 20 JB 14. UNKNOWN 18.45 20 J 14. UNKNOWN 18.45 20 J 14. UNKNOWN SILOXANE 19.06 55 J 15.	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
28.	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28.	UNKNOWN SILOXANE UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN UNKNOWN		150 17 71 34 24 18 67 160 19 12 20 60 20	=== JB JJJJJJJJJJB JJJJJJJJJJJJJJJJJJ

FORM I SV-TIC

OLM03.0

ACSGWMW54R-0

Lab Name: CONTUCHEM Contract: OLM03-REVS

Zab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944688

Sample wt/vol: 1040 (g/mL) ML Lab File ID:

% Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/15/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

	·· · · · · · · · · · · · · · · · · · ·	·
319-84-6alpha-BHC	0.048	i i
319-85-7beta-BHC	0.012	
319-86-8delta-BHC	0.0018	J
58-89-9gamma-BHC (Lindane)	0.048	U
76-44-8Heptachlor	0.048	ן ט
309-00-2Aldrin	0.048	ו ט
1024-57-3Heptachlor epoxide	0.048	
959-98-8Endosulfan I	0.048	_
60-57-1Dieldrin	0.096	- 1
72-55-94,4'-DDE	0.096	Ŭ
72-20-8Endrin	0.096	-
33213-65-9Endosulfan II	0.096	_
72-54-84,4'-DDD	0.096	
1031-07-8Endosulfan sulfate	0.096	ן מ
50-29-34,4'-DDT	0.096	lŭ l
72-43-5Methoxychlor	0.48	Ü
53494-70-5Endrin ketone	0.48	-
7421-93-4Endrin aldehyde	0.096	
5103-71-9alpha-Chlordane	0.048	Ŭ
5103-74-2gamma-Chlordane	0.048	_
8001-35-2Toxaphene	4.8	
12674-11-2Aroclor-1016	0.96	
11104-28-2Aroclor-1221	1.9	ן ט
11141-16-5Aroclor-1232	0.96	
53469-21-9Aroclor-1242	0.96	U
12672-29-6Aroclor-1248	0.96	ן יט∣
11097-69-1Aroclor-1254	0.96	ן ט
11096-82-5Aroclor-1260	0.96	U
· · · · · · · · · · · · · · · · · · ·		١ ــــــــــــــــــــــــــــــــــــ

# INORGANIC ANALYSES DATA SHEET

EPA	CAM	PLE	MO
CPA	DAI.	LP Lib	MO.

.b Name: COMI	PUCHEM		Contract: II	<u>'Μ</u> (	04.0	ACSGWMW54R-0
b Code: COMI	?U_ Ca	se No.: 342	200_ SAS No.:	: _		SDG No.: 00002_
trix (soil/v	water): WATE	R ·		Lá	ab Sampl	e ID: 944688
vel (low/med	d): LOW_	<u> </u>		Da	ate Rece	ived: 06/11/99
Solids:	0.	o ;				
Co	oncentration	Units (ug/	L or mg/kg dry	7 V	weight):	UG/L
	CAS No.	Analyte	concentration	С	Q	M
	7429-90-5	Aluminum	63.8	<u> </u>		P
		Antimony	1.0	U		F-
		Arsenic	1.8			P-
	7440-39-3	Barium	237			P
	1	Beryllium	0.10	ਹ		P
		Cadmium	1.1			P
	7440-70-2	Calcium	139000			P
		Chromium		B		P
	7440-48-4	Cobalt	1.0			P P
	7440-50-8		1.7			P
	7439-89-6	Iron	4570			P P
	7439-92-1	Lead	2.0	B		p P
	7439-95-4	Magnesium	60900			P
	7439-96-5	Manganese	88.4	-		P <sup>-</sup>
	7439-97-6	Mercury	0.05	บิ		C∇
	7440-02-0	Nickel	3.2	В		P_
	7440-09-7	Potassium	2100	В	E	P
	7782-49-2	Selenium_	1.6	U		P
	7440-22-4	Silver	0.40	U		P
	7440-23-5	Sodium	38300			P_
	7440-28-0	Thallium_	2.1		ll	P_
	7440-62-2	Vanadium_	0.40			P_
	7440-66-6	Zinc	0.40		\\	P
	<u> </u>	Cyanide	4.7	ַ		CĀ
	·	. !.	· .	'-	۱ <del></del> ۱	<del></del> '
lor Before:	COLORLESS	Clari	ty Before: CLE	AR	_	Texture:
lor After:	COLORLESS	Clari	ty After: CLE	AR <sub>.</sub>	<del></del>	Artifacts:
mments:						

FORM I - IN

ILM04.0

3 J

3 | JB

Lab Name: COMPUCHEM Contract: OLM03-REVS ACSGWMW55-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944689

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044689A57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

COMPOUND

75-09-2-----Methylene Chloride

67-64-1-----Acetone

CAS NO.

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

74-87-3------Chloromethane 10 U 74-83-9------Bromomethane 10 U 75-01-4------Vinyl Chloride 10 U 75-00-3------Chloroethane 10 U

75-15-0-----Carbon Disulfide 10 U 75-35-4-----1,1-Dichloroethene 10 U 75-34-3-----1,1-Dichloroethane 10 U 67-66-3-----Chloroform 10 U 107-06-2----1,2-Dichloroethane 10 U 78-93-3----2-Butanone 10 U 71-55-6-----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 U 75-27-4-----Bromodichloromethane 10 U

 79-00-5-----1,1,2-Trichloroethane
 10 U

 71-43-2-----Benzene
 10 U

 10061-02-6----trans-1,3-Dichloropropene
 10 U

 75-25-2-----Bromoform
 10 U

 108-10-1-----4-Methyl-2-Pentanone
 10 U

 108-10-1-----4-Methyl-2-Pentanone
 10 U

 591-78-6----2-Hexanone
 10 U

 127-18-4-----Tetrachloroethene
 10 U

 79-34-5-----1,1,2,2-Tetrachloroethane
 10 U

 108-88-3-----Toluene
 10 U

1330-20-7-----Xylene (Total) 10 U 540-59-0-----1,2-Dichloroethene (total) 10 U

FORM I VOA

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWMW55-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU

Case No.: 34200 SAS No.:

SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944689

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cn044689a57

Level: (low/med) LOW

Date Received: 06/11/99

% Moisture: not dec. \_\_\_\_

Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_(uL)

Soil Extract Volume: \_\_\_\_(uL)

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 1120-21-4 2. 112-40-3 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	COMPOUND NAME  UNDECANE  DODECANE	RT 21.57 22.83	6	Q ===== NJ NJ
13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26.				
26. 27. 28. 29. 30.				

ACSGWMW55R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944689

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044689A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

			CONCENTRALIC				
4	CAS NO.	COMPOUND	(ug/L or ug/	/Kg) UG/L		Q	
			1 1 3 Total				
1			-		74 <u></u>		
1		Phenol			10		
İ	111-44-4	bis(2-Chloroethy)	l)ether		10		
	95-57-8	2-Chlorophenol			10		Ž 75
	541-73-1		ene		10		
	106-46-7	1,4-Dichlorobenze	ene	[ 김 선생 기술	10	_	
्री	95-50-1 <b></b> -	1,4-Dichlorobenze	ene		10	U	
1	95-48-7	2-Methylphenol	For the state of		10		
	108-60-1	2,2'-oxybis(1-Ch	loropropane)		10	U	
1	106-44-5	4-Methylphenol	•		10	U	1.
1	621-64-7	N-Nitroso-di-n-pi	ropylamine	٠.	10	U	1
۱	67-72-1	Hexachloroethane			10	U	-
		Nitrobenzene			10		
ļ	78-59-1	Isophorone			10	Ū	
	88-75-5	2-Nitrophenol			10	Ū	1
	105-67-9	2,4-Dimethylpheno	ol		10	U	.
	111-91-1	bis(2-Chloroethor	xy) methane		10	U .	1 .
	120-83-2	2;4-Dichloropheno	ol —		10	U	
	120-82-1	1,2,4-Trichlorobe	enzene	1	10	U	.
	91-20-3	Naphthalene		111	10	U	
	106-47-8	4-Chloroaniline		·	10	Ū	`
-		Hexachlorobutadie	ene		10	Ū	
	59-50-7	4-Chloro-3-methy	lphenol		10	Ū	
	91-57-6	2-Methylnaphthale	ene		10	Ū	
1	77-47-4	Hexachlorocyclope	entadiene		10		.   -
	88-06-2	2,4,6-Trichloropl	henol		10		
	95-95-4	2,4,5-Trichlorop	henol		25		
	91-58-7	2-Chloronaphthale	ene		10		ŀ
	88-74-4	2-Nitroaniline			25		į
	131-11-3	Dimethylphthalate	<u> </u>		10		1.
	208-96-8	Acenaphthylene	<u> </u>		10		
	606-20-2	2,6-Dinitrotolue	ne		10	_	
	1 99-09-2	3-Nitroaniline			25		
	83-32-9	Acenaphthene	<del></del>		10	lΰ	
	1 23 32 3	iicciiapiiciiciic		1	10	١٠	ı

ACSGWMW55R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944689

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044689A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: decanted: (Y/N) Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

COMPOUND

GPC Cleanup: (Y/N) N pH: \_\_\_

CAS NO.

51-28-5-----2,4-Dinitrophenol 25 U 100-02-7----4-Nitrophenol 25 U

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

132-64-9------Dibenzofuran

121-14-2---------Diethylphthalate

7005-72-3------4-Chlorophenyl-phenylether 10 U 10 U 10 U 10 U 86-73-7-----Fluorene 10 U 100-01-6-----4-Nitroaniline 25 U 534-52-1-----4,6-Dinitro-2-methylphenol 25 U 86-30-6-----N-nitrosodiphenylamine (1) 10 U 10 U 101-55-3----4-Bromophenyl-phenylether 118-74-1-----Hexachlorobenzene 10 U -25 U 87-86-5-----Pentachlorophenol 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8-----Carbazole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1----3,3'-Dichlorobenzidine 10 U 56-55-3-----Benzo (a) anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 10 U 117-84-0-----Di-n-octylphthalate 10 U 205-99-2-----Benzo(b) fluoranthene 10 U 207-08-9-----Benzo(k) fluoranthene 10 U 50-32-8-----Benzo (a) pyrene 10 U 193-39-5-----Indeno(1,2,3-cd)pyrene 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 U 191-24-2----Benzo(q,h,i)perylene 10 U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

OLM03.

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

\_\_\_\_\_

ACSGWMW55R-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944689

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH044689A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: decanted: (Y/N) Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: Number TICs found: 22 (ug/L or ug/Kg) UG/L

1	<del></del>	<del></del>		1
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	6.86	170	J J JB
2.   3.	UNKNOWN SILOXANE UNKNOWN (BC)	6.91	170 9 6	JB
4. 5.	UNKNOWN (BC) UNKNOWN SILOXANE	7.43 8.53	16 11	JB J
6. 7.	UNKNOWN UNKNOWN	9.04 9.49	10	J
8.	UNKNOWN	9.78	82	J
9. 10.	UNKNOWN (BC) UNKNOWN	10.03 10.34	260	JB J
11. 12.	UNKNOWN UNKNOWŃ	10.47 10.56		J J
13.	UNKNOWN SILOXANE UNKNOWN SILOXANE	11.44 11.47	32 34	J J
15.	UNKNOWN	11.62	34	J_
16. 17.	UNKNOWN UNKNOWN	11.84 12.52	10	J
18. 19.	UNKNOWN UNKNOWN	12.60 12.87		J
20.	UNKNOWN	14.80 15.02	23	J J
22.	UNKNOWN	19.33	6	J
23				<u> </u>
25. 26.				
27		-		
29.				

ACSGWMW55R-0

Contract: OLM03-REVS Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00002

Lab Sample ID: 944689 Matrix: (soil/water) WATER

Sample wt/vol: 1010 (g/mL) ML Lab File ID:

Date Received: 06/11/99 % Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/15/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/07/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) N pH: \_\_\_

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/LCAS NO. COMPOUND

319-84-6alpha-BHC	0.050	U
319-85-7beta-BHC	0.016	JP
319-86-8delta-BHC	0.0023	JР
58-89-9gamma-BHC (Lindane)	0.050	
76-44-8Heptachlor	0.050	
309-00-2Aldrin	0.050	
1024-57-3Heptachlor epoxide	0.050	_
959-98-8Endosulfan I	0.050	
60-57-1Dieldrin	0.030	
		-
72-55-94,4'-DDE	0.099	
72-20-8Endrin	0.099	
33213-65-9Endosulfan II	. 0.099	
72-54-84,4'-DDD	0.099	
1031-07-8Endosulfan sulfate	0.099	
50-29-34,4'-DDT	0.099	
72-43-5Methoxychlor	0.50	
53494-70-5Endrin ketone	0.099	Ŭ
7421-93-4Endrin aldehyde	0.099	U
5103-71-9alpha-Chlordane	0.050	U
5103-74-2gamma-Chlordane	0.050	U
8001-35-2Toxaphene	5.0	U
12674-11-2Aroclor-1016	0.99	
11104-28-2Aroclor-1221	2.0	
11141-16-5Aroclor-1232	0.99	
53469-21-9Aroclor-1242	0.99	
12672-29-6Aroclor-1248	0.99	, -
11097-69-1Aroclor-1254	0.99	
11096-82-5Aroclor-1260	0.99	-
11070 02 3 A100101 1200		٦
	l	٠

FORM I PEST

## 1 INORGANIC ANALYSES DATA SHEET

EPA	CΛM	PLE	NTO
LPA	SAM	ובעבו	NO

ab Name: COMPU	JCHEM		Contract: II	LM0	4.0	A	CSGWMW55-09
ab Code: COMPU	J_ Ca	se No.: 342	200_ SAS No.	:		SD	G No.: 00002
atrix (soil/wa	ater): WATE	R		La	b Samp	le I	D: 944689
evel (low/med)	: LOW_	<u>-</u>	·	Da	te Rec	eive	d: 06/11/99
Solids:	0.	0					
Cor	ncentration	Units (ug,	L or mg/kg dry	/ W	eight)	: UG	
	CAS No.	Analyte	Concentration	С	Q	M	
		·		_		_	
	7429-90-5	Aluminum_	182			P_	
	7440-36-0	Antimony_ Arsenic	1.0			P_ P_	
	7440-38-2 7440-39-3	Barium	2.1			P-	
	7440-39-3	Beryllium	0.26		<del></del>	P_	
	7440-41-7	Cadmium	0.77			P_	
	7440-70-2	Calcium	74500			$ P^- $	
	7440-47-3	Chromium	3.6		<del></del>	P_	
	7440-48-4	Cobalt	1.8			$ P^- $	
	7440-50-8	Copper	5.9			P-	
	7439-89-6	Iron	370			$ P^- $	
	7439-92-1	Lead	2.0			P	
	7439-95-4	Magnesium	53600			P_	
	7439-96-5	Manganese	113	-		P	
	7439-97-6	Mercury	0.05	ᇤ		CV	
	7440-02-0	Nickel	3.2			P	•
•	7440-09-7	Potassium	4090			$ P^- $	
	7782-49-2	Selenium	1.6	1 1		$ P^- $	
	7440-22-4	Silver	0.40	. 1		P	
	7440-23-5	Sodium	45800			$ P^- $	
**	7440-28-0	Thallium	2.7			P-	
	7440-62-2	Vanadium	0.40			$ P^- $	•
		1 . ~~~~~~					
		Zinc	0.40	HUL		15 1	
•	7440-66-6	Zinc Cyanide	0.40			P_ CA	

Color Before:	COLORLESS	Clarity Before: CLEAR_	Texture:
Color After:	COLORLESS	Clarity After: CLEAR_	Artifacts:
Comments:			

FORM I - IN

ILM04.0

### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWATMW49-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944690

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR044690B57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

74 07 3	Chloromethane	10	7.7
	Bromomethane		1 - 1
		10	_
	Vinyl Chloride	10	
	Chloroethane	10	1 -
	Methylene Chloride	_	J
67-64-1		1	JB
	Carbon Disulfide	10	1
	1,1-Dichloroethene	10	j.
	1,1-Dichloroethane	10	1
	Chloroform	10	11
	1,2-Dichloroethane	10	U
	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87 <b>-</b> 5- <b></b>	1,2-Dichloropropane	10	שׁ
10061-01-5	cis-1,3-Dichloropropene	10	ן ט י
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	ט
	1,1,2-Trichloroethane	10	
71-43-2		10	I
	trans-1,3-Dichloropropene	10	1 -
	Bromoform	10	1 -
	4-Methyl-2-Pentanone	10	1
	2-Hexanone	10	
	Tetrachloroethene	10	
	1,1,2,2-Tetrachloroethane	10	1
108-88-3		10	
	Chlorobenzene	10	1 -
	Ethylbenzene	10	
100-42-5			บ
	Xylene (Total)	10	
	1,2-Dichloroethene (total)	10	1 -
) J40-J9-0	1,2 promotoechene (cocar)	10	10
l <u></u>		. I	l

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM

Contract: OLM03-REVS

ACSGWATMW42-09	
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Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944690

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: cr044690b57

Level: (low/med) LOW

% Moisture: not dec.

Date Received: 06/11/99

Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:\_\_\_\_(uL)

Number TICs found: 1

Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACSGWATMW40-09

Contract: OLM03-REVS Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944690

Sample wt/vol:

970 (g/mL) ML Lab File ID: GH044690A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture:

decanted: (Y/N)

Date Extracted:06/14/99

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 07/20/99

Injection Volume:

2.0(uL)

Dilution Factor: 1.0

CONCENTRATION UNITS:

GPC Cleanup: (Y/N) N

pH:

FORM I SV-1

ACSGWATMW40-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944690

Sample wt/vol: 970 (g/mL) ML Lab File ID: GH044690A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: \_\_\_\_ decanted: (Y/N) Date Extracted: 06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

-					
	A51-28-52,4-Dinitrophenol	÷	26		
	A100-02-74-Nitrophenol         B132-64-9Dibenzofuran         B121-14-22,4-Dinitrotoluene         B84-66-2Diethylphthalate		26		
	後132-64-9Dibenzofuran		10		
	18121-14-22,4-Dinitrotoluene		10	υ.	4. 1
	B84-66-2Diethylphthalate		10	U	
•	87005-72-34-Chlorophenyl-phenylether_		10	U	
•	686-73-7Fluorene	: '	10	U	
	G100-01-64-Nitroaniline	ı,	26	U	
	A534-52-14;6-Dinitro-2-methylphenol		26		
_	86-30-6N-nitrosodiphenylamine (1)	•	10		
	β101-55-34-Bromophenyl-phenylether		10		
	Ø118-74-1Hexachlorobenzene		10		
	A87-86-5Pentachlorophenol		26	_	
	යි85-01-8Phenanchrene		10		
	6120-12-7Anthracene		10	l	
_	- 86-74-8Carbazole		10	_	
	684-74-2Di-n-butylphthalate		10		
	$\beta$ 206-44-0Fluoranthene		10		
•	8129-00-0Pyrene		10		•
	685-68-7Butylbenzylphthalate		10	•	
	691-94-13,3'-Dichlorobenzidine		10		
	856-55-3Benzo(a) anthracene				
	B218-01-9Chrysene		10	i	
	13218-01-9		10	Į.	
	6117-81-7bis(2-Ethylhexyl)phthalate		10	_	
	B117-84-0Di-n-octylphthalate		10	_	
	6205-99-2Benzo(b) fluoranthene		10	E .	
	6207-08-9Benzo(k) fluoranthene		10		
	850-32-8Benzo(a)pyrene		10	U	
	ß193-39-5Indeno(1,2,3-cd)pyrene		10	U	
	ß53-70-3Dibenzo(a,h)anthracene	:	10	U	
	B191-24-2Benzo(g,h,i)perylene		10	U	
				1	
(	1) - Cannot be separated from Diphenylamine	· ————			

#### 1 F

EPA SAMPLE NO.

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

OMPUCHEM Contract: OLM03-REVS

ACSGWATMW40-09

Lab Name: COMPUCHEM Contract: OLM03-REV
Lab Code: COMPU Case No.: 34200 SAS No.:

ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944690

Sample wt/vol: 970 (g/mL) ML Lab File ID: GH044690A70

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: decanted: (Y/N) \_\_\_ Date Extracted:06/14/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_

CONCENTRATION UNITS: Number TICs found: 25 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.	UNKNOWN UNKNOWN	6.85 6.90 7.42 8.40 8.52 8.74 9.06 9.40 9.55 9.82 9.99 10.12 10.39 10.53 11.24 12.12 12.25 12.52 12.62 12.76 14.90 15.01 16.26 18.82	19 15 16 4 4 3 4 8 9 56 4 10 190 26 84 23 6 7 9 12 7 4 16 54	55555B 5555555555555555555555555555555

FORM I SV-TIC

ACSGWATMW40-

Lab Name: COMPUCHEM Contract: OLM03-REVS

ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944690

Sample wt/vol: 980.0 (g/mL) ML Lab File ID:

% Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_ Date Received: 06/11/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/15/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/17/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

319-84-6	0.10 0.10 0.10 0.10 0.51 0.10 0.051 0.051 5.1	ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט
7421-93-4Endrin aldehyde 5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane 8001-35-2Toxaphene	0.10 0.051 0.051 5.1 1.0 2.0 1.0	ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט

# 1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

		INORGANIC A	ANALYSES DATA S	SHEET	
Lab Name: COMP	UCHEM		Contract: II	LM04.0	ACSGWATMW40-
Lab Code: COMP	U_ Ca:	se No.: 342	200_ SAS No.:	:	SDG No.: 00002_
Matrix (soil/w	ater): WATE	R		Lab Sampl	e ID: 944690
Level (low/med	): LOW	_ ;		Date Rece	eived: 06/11/99
Solids:	0.0	0			
Со	ncentration	Units (ug,	/L or mg/kg dry	y weight):	UG/L
	CAS No.	Analyte	Concentration	C Q	М
	7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7439-97-6	Aluminum_ Antimony_ Arsenic_ Barium_ Beryllium Cadmium_ Calcium_ Chromium_ Cobalt_ Copper_ Iron_ Lead_ Magnesium Manganese Mercury_ Nickel_ Potassium Selenium_ Silver_ Sodium_ Thallium_ Vanadium_ Zinc_ Cyanide_	117 0.05 10.4	U B B B B B B B B B B D D D D D D D D D	P
Color Before:	COLORLESS	Clari	ty Before: CLE	AR_	Texture:
Color After:	COLORLESS	Clari	ty After: CLE	AR_	Artifacts:
Comments:					

FORM I - IN

ILM04.0

#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Q

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944519

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044519B57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. \_\_\_\_ Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

COMPOUND

CAS NO.

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

10 U 74-87-3-----Chloromethane 74-83-9-----Bromomethane 10 U 75-01-4-----Vinyl Chloride\_\_\_ 10 U 75-00-3-----Chloroethane 10 U 75-09-2-----Methylene Chloride 4 J 67-64-1-----Acetone 3 JB 75-15-0-----Carbon Disulfide 10 U 75-35-4----1,1-Dichloroethene 10 U 75-34-3----1,1-Dichloroethane 10 U 67-66-3-----Chloroform 10 U 107-06-2----1, 2-Dichloroethane 10 U 78-93-3----2-Butanone 10 U 71-55-6----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 U 10 U 75-27-4-----Bromodichloromethane 78-87-5----1,2-Dichloropropane 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6-----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2----Benzene 10 U 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2-----Bromoform 10 U 108-10-1----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U 127-18-4-----Tetrachloroethene 10 U 79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene · 10 U 108-90-7-----Chlorobenzene 10 U 100-41-4-----Ethylbenzene 10 U 100-42-5-----Styrene 10 U 1330-20-7-----Xylene (Total) 10 U 540-59-0-----1,2-Dichloroethene (total) 10 U

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

TB01-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU

Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944519

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cn044519b57

Level: (low/med) LOW |

Date Received: 06/10/99

% Moisture: not dec. \_ \_ |

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Date Analyzed: 06/23/99

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		======	=======================================	====
1			·	
3				
4.				
5.			· — — — — · — · — · — · — · — · · — ·	
6.				
7.				
ö.				
9				
10				
11.				<del></del>
12				
13.	1	<del></del>		
14.				<del></del>
15				
10.		<del></del>	<del></del>	
1/.	<del></del>	<del></del>	<del></del>	
18.				\ <u></u>
19.				<del></del>
20.		<del></del>	<del></del>	<u> </u>
21.				
23.				
24			<del></del>	
25.	<del></del>			\ <del></del>
26.	1	·		
21.				1
40.				
49.				
30				
				1

FORM I VOA-TIC

### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWTB02-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944730

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044730A57

Level: (low/med) LOW Date Received: 06/11/99

% Moisture: not dec. Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

		<del></del>	<del></del> 1
74-87-3Chlorometh	ane	10	ا تا
74-83-9Bromometha	ine		ן ט
75-01-4Vinyl Chlo	ori <del>de</del>		ן ט
75-00-3Chloroetha		10	ן ט
75-09-2Methylene	Chloride	3	J
67-64-1Acetone		10	ן יטן
75-15-0Carbon $\overline{\text{Dis}}$	sulfide	10	ן ט
75-35-41,1-Dichlo	roethe <del>ne</del>	10	ן ט
75-34-31,1-Dichlo		10	ן ט
67-66-3Chlorofor		10	ט
107-06-21,2-Dichlo	roethane		ן ט
78-93-32-Butanone		10	U
71-55-61,1,1-Tric		10	ן ט
56-23-5Carbon Tet	rachloride	10	U
75-27-4Bromodich	oromethane		U
78-87-51,2-Dichlo	ropropane	10	U
10061-01-5cis-1,3-D	chloropropene		U
79-01-6Trichloro	ethene		U
124-48-1Dibromoch	oromethane		U
79-00-51,1,2-Tric	hloroethane		U
71-43-2Benzene			ט
10061-02-6trans-1,3-	Dichloropropene	10	U
75-25-2Bromoform		10	U
108-10-14-Methyl-7	Pentanone		U
591-78-62-Hexanone		10	ט
127-18-4Tetrachlor	oethene	10	ט
79-34-51,1,2,2-Te	etrachloroethane	10	ע
108-88-3Toluene	_	10	U
108-90-7Chloroben	zene	10	ן ט
100-41-4Ethylbenze	ene		U
100-42-5Styrene			U
1330-20-7Xylene (To	otal)		U
540-59-01,2-Dichle	proethene (total)		U I
·			
		<del></del> '	

## 1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWTB02-09

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944730

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn044730a57

30.\_\_

Level: (low/med) LOW

Date Received: 06/11/99

Date Analyzed: 06/23/99

% Moisture: not dec. \_\_\_\_

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_(uL)

Soil Extract Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) ug/L CAS NUMBER RТ EST. CONC. COMPOUND NAME 9. 10. 11. 12. 13. 17. 18. 19. 20. 21. 23.\_\_ 24. 25. 27. 28. 29.\_

FORM I VOA-TIC

TB03-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945272

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CR045272A57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. \_\_\_\_ Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

CONCENTRATION UNITS:

COMPOUND CAS NO. (ug/L or ug/Kg) ug/L Q 74-87-3-----Chloromethane 10 U 74-83-9-----Bromomethane 10 U 75-01-4-----Vinyl Chloride\_\_\_\_\_ 10 U 75-00-3-----Chloroethane 10 U 75-09-2-----Methylene Chloride 3 | J  $\tilde{2}|J$ 67-64-1-----Acetone 75-15-0-----Carbon Disulfide 10 U 75-35-4----1,1-Dichloroethene 10 U 75-34-3-----1,1-Dichloroethane 10 U 67-66-3-----Chloroform 10 U 107-06-2-----1,2-Dichloroethane 10 U 78-93-3----2-Butanone 10 U 71-55-6-----1,1,1-Trichloroethane\_\_ 10 U 56-23-5-----Carbon Tetrachloride\_ 10 U 75-27-4-----Bromodichloromethane 10 U 78-87-5-----1,2-Dichloropropane 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6-----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2-----Benzene 10 U 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2-----Bromoform 10 U 108-10-1-----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U 127-18-4----Tetrachloroethene 10 U 79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene 10 U 100-41-4-----Ethylbenzene 10 U 100-42-5------Styrene 1330-20-7------Xylene (Total) 10 U 10 U 540-59-0-----1,2-Dichloroethene (total) 10 U

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: COMPUCHEM

Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER

Lab Sample ID: 945272

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: cr045272a57

Level: (low/med) LOW

Date Received: 06/12/99

% Moisture: not dec.

Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: (uL

Soil Extract Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0	(ug/	L or ug/Kg)	ug/L	
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1	=======================================	== ======	=========	====
2			i	
3.				
T			·	
5		<del></del> _	<del></del>	
6. 7.			<del></del>	
8.			<del></del>	
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44.				
23.				
24.				
49.		···		
26. 27.		<del>-</del>	\ <u> </u>	
28.				

FORM I VOA-TIC

OLM03

TB04-09 Lab Name: C MPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945497

5.0 (g/mL) mLSample wt/vol: Lab File ID: C2R45497B57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. Date Analyzed: 06/28/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: \_\_\_ (uL

CONCENTRATION UNITS: (uq/L or uq/Kq) uq/L CAS NO. COMPOUND 0

74-87-3	Chloromethane	10	U
74-83-9		10	1
	Vinyl Chloride	10	
75-00-3	Chloroethane	10	
	Methylene Chloride	3	1
67-64-1		10	
	Carbon Disulfide	10	
	1,1-Dichloroethene	10	
	1,1-Dichloroethane	10	
67-66-3		10	
	1,2-Dichloroethane	10	
78-93-3		10	
	1,1,1-Trichloroethane	10	
56-23-5	Carbon Tetrachloride	10	
75-27-4	Bromodichloromethane	10	
	1,2-Dichloropropane	10	
	cis-1,3-Dichloropropene	10	
79-01-6	Trichloroethene	10	
	Dibromochloromethane	10	
	1,1,2-Trichloroethane	10	
71-43-2		10	
	trans-1,3-Dichloropropene	10	
75-25-2		10	
	4-Methyl-2-Pentanone	10	
591-78-6		10	
127-18-4	Tetrachloroethene	10	
	1,1,2,2-Tetrachloroethane	10	1
108-88-3		10	
108-90-7	Chlorobenzene	10	1 -
	Ethylbenzene	10	1
100-42-5		10	_
1330-20-7	Xylene (Total)	10	
540-59-0	1,2-Dichloroethene (total)	10	_

EFA.	SAMPLE	NO.

			CIFIED COMPOUNDS	
- 1	COMPLICATION		Garatan at OIMO	TB04-09
Lab Name:	COMPUCHEM	: •	Contract: OLMO	J3-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945497

Lab File ID: 5.0 (g/mL) mLc2r45497b57 Sample wt/vol:

Date Received: 06/15/99 Level: (low/med) LOW

Date Analyzed: 06/28/99 % Moisture: not dec.

GC Column: EQUITY624 ID: 0.53 Dilution Factor: 1.0 (mm)

Soil Aliquot Volume: (uL Soil Extract Volume: (uL)

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) ug/L

		·		
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	=======================================		==========	=====
1	1			
3			<u> </u>	
4				
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/ ·	1		<del></del>	
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16.	<del></del>			<del></del>
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<u> </u>				
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27			<del></del>	<u> </u>
28				
30.				

FORM I VOA-TIC

## VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM

EPA SAMPLE NO.

TB05-09 Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00007

Matrix: (soil/water) WATER Lab Sample ID: 945708

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045708B57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. Date Analyzed: 06/30/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

74-87-3Chloromethane	10	U
74-83-9Bromomethane	10	
75-01-4Vinyl Chloride	10	
75-00-3Chloroethane		
75-09-2Methylene Chloride	<del></del>   10	Ĵ
67-64-1Acetone		JВ
75-15-0Carbon Disulfide		l l
75-35-41,1-Dichloroethene		
75-34-31,1-Dichloroethane		
67-66-3Chloroform	10	
107-06-21,2-Dichloroethane	10	
78-93-32-Butanone	10	Į.
71-55-61,1,1-Trichloroethane	10	l I
56-23-5Carbon Tetrachloride	10	
75-27-4Bromodichloromethane	<u> </u>	
78-87-51,2-Dichloropropane	10	
10061-01-5cis-1,3-Dichloropropene	10 10	
79-01-6Trichloroethene		
124-48-1Dibromochloromethane	10	
70 00 F		1
79-00-51,1,2-Trichloroethane		1
71-43-2Benzene		
10061-02-6trans-1,3-Dichloropropene		
75-25-2Bromoform		
108-10-14-Methyl-2-Pentanone		1
591-78-62-Hexanone		_
127-18-4Tetrachloroethene		
79-34-51,1,2,2-Tetrachloroethane		
108-88-3Toluene		
108-90-7Chlorobenzene	10	ט
100-41-4Ethylbenzene	10	U
100-42-5Styrene	10	U .
1330-20-7Xylene (Total)		U
540-59-01,2-Dichloroethene (total	10	Ū
		1
	<del></del>	

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

TB05-09

Lab Name: C	COMPUCHEM
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Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00007

Matrix: (soil/water) WATER

Lab Sample ID: 945708

Sample wt/vol:

5.0 (q/mL) mL

Lab File ID: cn045708b57

Date Analyzed: 06/30/99

Level: (low/med)

LOW

Date Received: 06/16/99

% Moisture: not dec.

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: (uL

Soil Extract Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT ======	EST. CONC.	Q =====
1. 2. 3.				
4		<u>`</u>		
8. 9. 10.				
11. 12. 13.				
15. 16.				
19				
21. 22. 23. 24.				
25. 26. 27.				
28. 29. 30.				

FORM I VOA-TIC

EPA SAMPLE NO.

Lab Name: COMPUCHEM Contract: OLM03-REVS

FB01-09

0

10 U

10 | U

10 U

10. U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944517

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN044517B57

Level: (low/med) LOW Date Received: 06/10/99

% Moisture: not dec. Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

COMPOUND

79-00-5-----1,1,2-Trichloroethane\_

108-10-1----4-Methyl-2-Pentanone

127-18-4-----Tetrachloroethene

100-41-4-----Ethylbenzene

1330-20-7-----Xylene (Total)

10061-02-6----trans-1,3-Dichloropropene

79-34-5----1,1,2,2-Tetrachloroethane

108-90-7-----Chlorobenzene

540-59-0----1,2-Dichloroethene (total)

71-43-2-----Benzene

108-88-3-----Toluene

100-42-5-----Styrene

75-25-2-----Bromoform

591-78-6----2-Hexanone

74-87-3-----Chloromethane

CAS NO.

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

74-83-9-----Bromomethane 10 U 75-01-4-----Vinyl Chloride 10 U 75-00-3-----Chloroethane 10 U 75-09-2-----Methylene Chloride 4 J 9 JB 67-64-1-----Acetone 75-15-0-----Carbon Disulfide 10 U 75-35-4-----1,1-Dichloroethene 10 U 75-34-3----1,1-Dichloroethane 10 U 67-66-3-----Chloroform 1 | J 107-06-2----1, 2-Dichloroethane 10 U 78-93-3----2-Butanone 2 JB 10 U 71-55-6-----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride 10 U 75-27-4-----Bromodichloromethane\_ 10 U 78-87-5-----1,2-Dichloropropane 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6-----Trichloroethene 10 U 10 U 124-48-1-----Dibromochloromethane

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FB01-09 Contract: OLM03-REVS

Lab Name: COMPUCHEM

Lab Code: COMPU Case No.: 34200 SAS No.:

SDG No.: 00002

Matrix: (soil/water) WATER

Lab Sample ID: 944517

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cn044517b57

Level: (low/med) LOW

Date Received: 06/10/99

% Moisture: not dec.

Date Analyzed: 06/23/99

GC Column: EQUITY624 ID: 0.53

Number TICs found: 0

(mm)

Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_(uL)

Soil Extract Volume: \_\_\_\_ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

I		T		
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FB01-09

Contract: OLM03-REVS Lab Name: COMPUCHEM

ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00002

Matrix: (soil/water) WATER Lab Sample ID: 944517

Sample wt/vol: 1050 (g/mL) ML Lab File ID:

decanted: (Y/N)\_\_\_\_ % Moisture: Date Received: 06/10/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/12/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: CAS NO. (ug/L or ug/Kg) UG/L COMPOUND Q

		<del></del> ,
319-84-6alpha-BHC	0.048	U .
319-85-7beta-BHC	0.048	-
319-86-8delta-BHC	0.048	
58-89-9gamma-BHC (Lindane)	0.048	-
76-44-8Heptachlor	0.048	
309-00-2Aldrin	0.048	
1024-57-3Heptachlor epoxide	0.048	
959-98-8Endosulfan I	0.048	
60-57-1Dieldrin	0.095	-
72-55-94,4'-DDE	0.095	_
72-20-8Endrin	0.095	
33213-65-9Endosulfan II	0.095	
72-54-84,4'-DDD	0.095	
1031-07-8Endosulfan sulfate	0.095	_
50-29-34,4'-DDT	0.095	
72-43-5Methoxychlor	0.48	I
53494-70-5Endrin ketone	0.095	
7421-93-4Endrin aldehyde	0.095	
5103-71-9alpha-Chlordane	0.048	
5103-74-2gamma-Chlordane	0.048	_
8001-35-2Toxaphene	4.8	
12674-11-2Aroclor-1016	0.95	
11104-28-2Aroclor-1221	1.9	
11141-16-5Aroclor-1232	0.95	1
53469-21-9Aroclor-1242	0.95	
12672-29-6Aroclor-1248	0.95	
11097-69-1Aroclor-1254	0.95	
11096-82-5Aroclor-1260	0.95	U
		l

## 1 INORGANIC ANALYSES DATA SHEET

	SAMPLE	3.7.0
$H D \Delta$	SAMPLE	DIT 1

	•	THORGAMATC	ANALIOLO DIIII	J11221	, <del></del>
					FB01-09
Lab Name: COMP	UCHEM		Contract: I	LM04.0	_
Lab Code: COMP	U_ Ca	se No.: 34	200_ SAS No.	:	SDG No.: 00002
Matrix (soil/w	ater): WATE	R	·	Lab Samp	ole ID: 944517
evel (low/med	): LOW_	_	•	Date Rec	ceived: 06/10/99
solids:	0.	o			
Co	ncentration	Units (ug	/L or mg/kg dry	y weight)	: UG/L
			Ţ	<u> </u>	T-1
	CAS No.	Analyte	Concentration	C Q	M
	7429-90-5	Aluminum	27.2	B	-   <del>-</del>
	7440-36-0	Antimony	1.3		-  -  P
	7440-38-2	Arsenic	1.4		- (P-
	7440-39-3	Barium	0.80		-  P-
	7440-41-7	Beryllium	I ———————		-  <sub>P</sub> -
	7440-43-9	Cadmium	0.20		-  <sub>P</sub> -
. *	7440-70-2	Calcium	58.4		-  <sub>P</sub> -
	7440-47-3	Chromium	2.0		- P-
	7440-48-4	Cobalt	0.93		-  p-
	7440-50-8	Copper	0.40		P
	7439-89-6	Iron	22.1		-  <sub>P</sub> -
	7439-92-1	Lead	1.1		~  P -
	7439-95-4	Magnesium			-  <sub>P</sub>
	7439-96-5	Manganese			~  P ~  .
	7439-97-6	Mercury_	0.05		~ c <del>⊽</del>
	7440-02-0	Nickel	0.50	טו	- P
	7440-09-7	Potassium	· ! <del></del>		P
	7782-49-2	Selenium	1.6		-  p-
	7440-22-4	Silver	0.40		-  <sub>P</sub> -
	7440-23-5	Sodium	1560		-  <sub>P</sub> -
	7440-28-0	Thallium	2.1	[ט]	P   P   P
•	7440-62-2	Vanadium	0.40		~  P
	7440-66-6	Zinc	2.3	В	P
		Cyanilde	4.7		$\overline{CA}$
				_	_
		· · · · · · · · · · · · · · · · · · ·			
olor Before:	COLORLESS	Clari	ty Before: CLE	AR_	Texture:
Color After:	COLORLESS	Çlari	ty After: CLE	AR_	Artifacts:
Comments:					
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- <del></del>			· · · · · · · · · · · · · · · · · · ·		

FORM I - IN

ILM04.0

## 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Contract: OLM03-REVS FB02-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945238

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045238B57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec. Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

CAD NO.	(43/2 02 0	29/N9/ U9/L	¥
	Chloromethane	_	10 U 10 U
	Vinyl Chloride	<del></del>	
	Chloroethane		10 U
	Methylene Chloride	<u></u>	10 U 8 J
67-64-1		<u> </u>	8   J 7   JB
	Carbon Disulfide	<del></del>	
	l,1-Dichloroethene		
		<u></u>	10 U
	1,1-Dichloroethane Chloroform	<del></del>	10 U
	Chioroform 1,2-Dichloroethane		10 U
			10 U
	2-Butanone	<u></u>	10 U
/1-55-6	1,1,1-Trichloroethane		10 U
56-23-5	Carbon Tetrachloride		10 U
	Bromodichloromethane	_	10 U
	1,2-Dichloropropane		10 U
10061-01-5	cis-1,3-Dichloropropene		10 U
	Trichloroethene		10 U
	Dibromochloromethane		10 U
	1,1,2-Trichloroethane		10 U
71-43-2			4 J
	trans-1,3-Dichloropropene_		10 U
	Bromoform		10 U
	4-Methyl-2-Pentanone		10 U
	2-Hexanone		10 U
127-18-4	Tetrachloroethene		10 U
79-34-5	1,1,2,2-Tetrachloroethane		10 U
108-88-3	Toluene		3 J
108-90-7	Chlorobenzene		10 U
100-41-4	Ethylbenzene		10 U
100-42-5		<del></del>	10 U
1330-20-7	Xylene (Total)	-	10 U
540-59-0	1,2-Dichloroethene (total)	<u> </u>	2 J
		<del></del>  .	-  -
·			

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

一、1947年中中的特别是不同的特別的關係的

FB02-09

Contract: OLM03-REVS

Lab Code: COMPU

Case No.: 34200

SAS No.:

SDG No.: 00005

Matrix: (soil/water) WATER

Lab Sample ID: 945238

Sample wt/vol:

5.0 (g/mL) mL

Lab File ID: cn045238b57

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: not dec.

Date Analyzed: 06/24/99

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1				====
4.				
3				
4		-		l
5	1		<del></del>	
6		-		
8		-	- <del></del>	
9				
.0.				l ——
.4.		_		
· · ·		_		
4		-		
-5			<del></del>	
.6		-   <del></del> -		
8		-		
9.				
20.	·			
ه ساد ه		_		
<b>4</b> ∠ •		_		
23		_		\
24		-	<del></del>	
66		- :	<del></del>	
27.			<del>-</del>	
28				
49• <u> </u>				
30				

FORM I VOA-TIC

FB02-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945238

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045238B70

Level: (low/med) LOW Date Received: 06/12/99

% Moisture: decanted: (Y/N) \_\_\_ Date Extracted:06/16/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

Injection volume: 2.0 (ub) Diluction ractor. 1.

GPC Cleanup: (Y/N) N pH: \_\_\_\_ CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
· .			

		<del></del> 1
108-95-2Phenol	10	π
111-44-4bis(2-Chloroethyl)ether	10	1 1
95-57-82-Chlorophenol	10	
541-73-11,3-Dichlorobenzene	10	Ū l
106-46-71,4-Dichlorobenzene	10	ן ט
95-50-11,2-Dichlorobenzene	10	ט
95-48-72-Methylphenol	10	ן ט
108-60-12,2'-oxybis(1-Chloropropane)	10	ן טן
106-44-54-Methylphenol	10	ן ט
621-64-7N-Nitroso-di-n-propylamine	10	ן ט
67-72-1Hexachloroethane	10	ן ט
98-95-3Nitrobenzene	10	ן די
78-59-1Isophorone	10	U
88-75-52-Nitrophenol	10	U
105-67-92,4-Dimethylphenol	10	ן טן
111-91-1bis(2-Chloroethoxy)methane	10	U
120-83-22,4-Dichlorophenol	10	U
120-82-11,2,4-Trichlorobenzene	10	ן ט [
91-20-3Naphthalene	10	1 -
106-47-84-Chloroaniline	10	U
87-68-3Hexachlorobutadiene	10	U
59-50-74-Chloro-3-methylphenol	10	1 -
91-57-62-Methylnaphthalene	10	1 -
77-47-4Hexachlorocyclopentadiene	10	ן ט
88-06-22,4,6-Trichlorophenol	10	-
95-95-42,4,5-Trichlorophenol	25	-
91-58-72-Chloronaphthalene	10	1 -
88-74-42-Nitroaniline	. 25	1 .
131-11-3Dimethylphthalate	. 10	1
208-96-8Acenaphthylene	10	1 1
606-20-22,6-Dinitrotoluene	10	1 - 1
99-09-23-Nitroaniline	25	1 -
83-32-9Acenaphthene	10	U
		1

FORM I SV-1

0

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

COMPOUND

CAS NO.

FB02-09 Contract: OLM03-REVS Lab Name: COMPUCHEM SDG No.: 00005 Case No.: 34200 SAS No.: Lab Code: COMPU Lab Sample ID: 945238 Matrix: (soil/water) WATER 1000 (g/mL) ML Lab File ID: GH045238B70 Sample wt/vol: Date Received: 06/12/99 Level: (low/med) LOW decanted: (Y/N) Date Extracted: 06/16/99 % Moisture: 1000(uL) Date Analyzed: 07/07/99 Concentrated Extract Volume: Injection Volume: 2.0 (uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(uq/L or uq/Kq) UG/L

51-28-5-----2,4-Dinitrophenol 25 U 100-02-7----4-Nitrophenol 25 U 132-64-9------Dibenzofuran 10 U 10 U 121-14-2----2,4-Dinitrotoluene 10 U 84-66-2-----Diethylphthalate 7005-72-3-----4-Chlorophenyl-phenylether 10 U 86-73-7----Fluorene 10 U 100-01-6-----4-Nitroaniline 25 U 534-52-1----4,6-Dinitro-2-methylphenol 25 | บ 86-30-6----N-nitrosodiphenylamine\_(1)\_\_\_ 10 U 101-55-3----4-Bromophenyl-phenylether\_\_ 10 U 118-74-1-----Hexachlorobenzene 10 U 87-86-5----Pentachlorophenol 25 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8------Carbazole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1----3,37-Dichlorobenzidine 10 U 56-55-3-----Benzo (a) anthracene 10 U 218-01-9-----Chrysene 10 U 2 J 10 U 10 U 207-08-9-----Benzo(k)fluoranthene\_ 10 U 50-32-8-----Benzo (a) pyrene 10 U 193-39-5----Indeno(1,2,3-cd)pyrene 10 0 53-70-3-----Dibenzo (a, h) anthracene 10 U 191-24-2----Benzo(g,h,i)perylene 10 U (1) - Cannot be separated from Diphenylamine

FORM I SV · 2

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

				FB02-09
Lab	Name:	COMPUCHEM	Contract: OLM03	-REVS

ab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945238

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH045238B70

Level: (low/med) Date Received: 06/12/99 LOW

Date Extracted:06/16/99 % Moisture: decanted: (Y/N)

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/99

Dilution Factor: 1.0 Injection Volume: 2.0(uL)

GPC Cleanup: (Y/N) N pH: \_\_\_

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1				· · · · ·
4	<u>·</u>			
5. 6. 7.				
8. 9. 10.				
11.				
14			<u> </u>	
17.				
18. 19. 20.				
21.				
25.				
26. 27. 28.				
29.				

FORM I SV-TIC

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: SDG No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945238

Sample wt/vol: 1050 (g/mL) ML Lab File ID:

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Received: 06/12/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/16/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

FORM I PEST

## INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO
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Lab Name: COMPUCHEM_	Cor	ntract: ILM04.0	FE∪2-09
Lab Code: COMPU_	Case No.: 34200_	SAS No.:	SDG No.: 00005_
Matrix (soil/water):	WATER	Lab Sample	e ID: 945238
Level (low/med):	LOW	Date Recei	lved: 06/12/99
% Solids:	0.0		

Concentration Units (ug/L or mg/kg dry weight): UG/L\_\_\_\_

CAS No.	Analyte	Concentration	C	Q ·	М
7429-90-5	Aluminum	33.2	$\overline{\mathtt{U}}$		$ \overline{P} $
7440-36-0	Antimony -	1.8	U		P-
7440-38-2	Arsenic	2.0	U		$ P^- $
7440-39-3	Barium —	0.92	В		$ P^- $
7440-41-7	Beryllium	0.24	В		P
7440-43-9	Cadmium	0.50	U		P_
7440-70-2	Calcium	251	В		P_
7440-47-3	Chromium_	1.2	В		P_
7440-48-4	Cobalt	0.60	U		P_
7440-50-8	Copper	1.1	U	·	P_
7439-89-6	Iron	38.0	В		P_
7439-92-1	Lead	1.0	U		P_
7439-95-4	Magnesium	93.1	В		P_
7439-96-5	Manganese	0.81	В		P_
7439-97-6	Mercury	0.05	U	<del></del>	CV
7440-02-0	Nickel	1.0	U		P_
7440-09-7	Potassium	61.8	U		P_
7782-49-2	Selenium_	3.1	U		P_
7440-22-4	Silver	0.30	U		P_
7440-23-5	Sodium	. 846	В		P_
7440-28-0	Thallium_	4.1	U		P_
7440-62-2	Vanadium_	0.60	U		P_
7440-66-6	Zinc	5.1	В		P_
	Cyanide	4.7	U		CA
l			l_	l	ll

Color Before:	COLORLESS	Clarity B	sefore: CL	EAR_	Texture:	-
Color After:	COLORLESS	Clarity A	After: CL	EAR_	Artifacts:	
Comments:						
						<u> </u>
<del></del>						

FORM I - IN

ILM04.0

FB03-09 Lab Name: COMPUCHEM Contract: OLM03-REVS Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005 Matrix: (soil/water) WATER Lab Sample ID: 945491 Sample wt/vol: 5.0 (q/mL) mL Lab File ID: C2R45491B57 Level: (low/med) LOW Date Received: 06/15/99 % Moisture: not dec. Date Analyzed: 06/28/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: (uL Soil Extract Volume: \_\_\_ (uL) CONCENTRATION UNITS: COMPOUND CAS NO. (ug/L or ug/Kg) ug/L Q 74-87-3-----Chloromethane 10 U 74-83-9-----Bromomethane 10 U 75-01-4-----Vinyl Chloride 10 U 75-00-3-----Chloroethane\_ 10 U 75-09-2----Methylene Chloride 49 67-64-1-----Acetone 10 75-15-0-----Carbon Disulfide 10|0 75-35-4----1,1-Dichloroethene\_ 10 U 75-34-3-----1,1-Dichloroethane\_ 10 U 67-66-3-----Chloroform 1 J 107-06-2----1,2-Dichloroethane 10 U 78-93-3----2-Butanone 2 | J 71-55-6-----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 U 75-27-4-----Bromodichloromethane 10 U 78-87-5-----1,2-Dichloropropane 10 U 10061-01-5----cis-1,3-Dichloropropene\_ 10 U 79-01-6-----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2----Benzene 10 U 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2-----Bromoform 10 U 108-10-1-----4-Methyl-2-Pentanone 1 | J 591-78-6-----2-Hexanone 10 U 127-18-4-----Tetrachloroethene 10 U 79-34-5-----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene\_\_\_ 10 U 100-41-4-----Ethylbenzene 10 U 100-42-5----Styrene 10 U

FORM I VOA

1330-20-7-----Xylene (Total)

540-59-0----1,2-Dichloroethene (total)

10 U

10 U

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

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FB03-09

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ab	manic.	COMEOCIALIA	Concrace.	OPHION KEAN	l

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945491

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: c2r45491b57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/28/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_(uL

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1				
4		·		
5 6				
8				
10. 11. 12.				
14.				
15. 16. 17.				
19.				
21.				
22. 23. 24.				
25. 26.				
27. 28. 29.		·		<del>  </del>
30				

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FB03-09RE Lab Name: COMPUCHEM Contract: OLM03-REVS Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005 Matrix: (soil/water) WATER Lab Sample ID: 945491 Sample wt/vol: 5.0 (q/mL) mL Lab File ID: C3R45491B57 Level: (low/med) LOW Date Received: 06/15/99 % Moisture: not dec. Date Analyzed: 06/29/99 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: \_\_\_\_(uL Soil Extract Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L 0 74-87-3------Chloromethane 10 U 74-83-9-----Bromomethane 10 U 10 U 10 U 75-09-2-----Methylene Chloride 44 10 J 67-64-1------Acetone 75-15-0-----Carbon Disulfide 10 U 75-35-4-----1,1-Dichloroethene\_ 10 U 75-34-3-----1,1-Dichloroethane 10 U 67-66-3------Chloroform 1 J 107-06-2----1,2-Dachloroethane 10 U 78-93-3-----2-Butanone 2 J 71-55-6-----1,1,1,Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 U 75-27-4-----Bromodichloromethane 10 U 78-87-5-----1,2-Dichloropropane\_ 10 U 10061-01-5----cis-1, 3-Dichloropropene 10 U 79-01-6-----Trichloroethene 10 U 10 U 10 U 71-43-2-----Benzehe 10 U 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2-----Bromoform 10 U 108-10-1-----4-Methyl-2-Pentanone 1 J 591-78-6----2-Hexanone 10 U 127-18-4----Tetrachloroethene 10 U 79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene 10 U 10 U 10 U 10 U 10 U

FORM I VOA

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

11、1年15、70%的原本1度以及國際機能

FB03-09RE

Soil Aliquot Volume: \_\_\_\_(uL

	•			 
Lah Name•	COMPUCHEM	Contract	OLM03-REVS	
pab name.	COM OCHEM	concract.	OHMOS KHVD	 
i'				

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945491

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: c3r45491b57

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: not dec. \_\_\_\_\_
Date Analyzed: 06/29/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Soil Extract Volume: \_\_\_\_(uL)

CAS NUMBER	COMPOUND NAME	RT ======	EST. CONC.	Q =====
1				
4				
8. 9. 10.				
11. 12. 13.				
14. 15. 16.				
17. 18. 19.				
20.				
23. 24. 25. 26.				
27. 28. 29.	· · · · · · · · · · · · · · · · · · ·			
30				

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FB03-09 Lab Name: COMPUCHEM Jontract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945491

Sample wt/vol: 1040 (g/mL) ML Lab File ID: GH045491A66

Date Received: 06/15/99 Level: (low/med) LOW

Date Extracted:06/17/99 % Moisture: decanted: (Y/N)

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pu:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND

108-95-2Phenol	10	ט
111-44-4bis(2-Chloroethyl)ether	10	ט ו
95-57-82-Chlorophenol	_  10	U
541-73-11,3-Dichlorobenzene	10	U
106-46-71,4-Dichlorobenzene	10	U
95-50-11,2-Dichlorobenzene	_ 10	ט
95-48-72-Methylphenol	10	שו
108-60-12,2'-oxybis(1-Chloropropane	Γ 10	U
106-44-54-Methylphenol	10	Ū
621-64-7N-Nitroso-di-n-propylamine	10	ש
67-72-1Hexachloroethane	10	U
98-95-3Nitrobenzene	10	ע
78-59-1Isophorone	10	ַ
88-75-52-Nitrophenol	_  10	ט
105-67-92,4-Dimethylphenol	_ 10	U
111-91-1bis(2-Chloroethoxy) methane	10	ע .
120-83-22,4-Dichlorophenol	10	ן ט
120-82-11,2,4-Trichlorobenzene	_  10	ע
91-20-3Naphthalene	_ 10	שו
106-47-84-Chloroaniline	_ 10	ט
87-68-3Hexachlorobutadiene	_  10	U
59-50-74-Chloro-3-methylphenol		U
91-57-62-Methylnaphthalene	_  10	U
77-47-4Hexachlorocyclopentadiene	_  10	ש
88-06-22,4,6 Trichlorophenol	10	U
95-95-42,4,5-Trichlorophenol	_ 25	U
91-58-72-Chloronaphthalene	_  10	U
88-74-42-Nitroaniline	<sup>-</sup>   25	U
131-11-3Dimethylphthalate	_ · 10	Ū
208-96-8Acenabhthylene	_  · 10	U
606-20-22,6-Dinitrotoluene	10	ע
99-09-23-Nitṛoaniline	25	U
83-32-9Acenaphthene	10	U

FORM I SV-1

FB03-09

Lab Name: Cc..PUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945491

Sample wt/vol: 1040 (g/mL) ML Lab File ID: GH045491A66

Level: (low/med) LOW Date Received: 06/15/99

% Moisture: decanted: (Y/N) Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

		···
51-28-52,4-Dinitrophenol	25	ŢŢ
100-02-74-Nitrophenol	25	
132-64-9Dibenzofuran	10	
121-14-22,4-Dinitrotoluene	10	
84-66-2Diethylphthalate	10	
7005-72-34-Chlorophenyl-phenylether	10	
86-73-7Fluorene	10	
100-01-64-Nitroaniline	25	
534-52-14,6-Dinitro-2-methylphenol	25	
	10	
86-30-6N-nitrosodiphenylamine (1)	1	
101-55-34-Bromophenyl-phenylether	10	
118-74-1Hexachlorobenzene	10	_
87-86-5Pentachlorophenol	25	
85-01-8Phenanthrene	10	
120-12-7Anthracene	10	4
86-74-8Carbazole	10	
84-74-2Di-n-butylphthalate	10	
206-44-0Fluoranthene	10	U
129-00-0Pyrene	10	U
85-68-7Butylbenzylphthalate	10	U
91-94-13,37-Dichlorobenzidine	10	U
56-55-3Benzo(a) anthracene	10	Ü
218-01-9Chrysene	10	Ū
117-81-7bis(2-Ethylhexyl)phthalate	10	
117-84-0Di-n-octylphthalate	10	
205-99-2Benzo(b) fluoranthene	10	
207-08-9Benzo(k) fluoranthene	10	1
50-32-8Benzo (a) pyrene	10	1
193-39-5Indeno(1,2,3-cd)pyrene	10	
53-70-3Dibenzo(a,h)anthracene	10	1
191-24-2Benzo(g,h,i)perylene	10	
131 24 2 Benzo (8, 11, 11 bet A tene	1	•
- Cannot be separated from Diphenylamine	I	ـــــــ

1F

EPA SAMPLE NO.

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

		FB03-09
 OT MOD	DDMA	

Lab Name: COMPUCHEM

Contract: OLM03-REVS

SDG No.: 00005

Lab Code: COMPU Case No.: 34200 SAS No.:

Lab Sample ID: 945491

Sample wt/vol:

Matrix: (soil/water) WATER

1040 (g/mL) ML

Lab File ID: GH045491A66

Level: (low/med)

LOW

Date Received: 06/15/99

% Moisture: \_\_\_\_

decanted: (Y/N)

1000 (uL)

Date Extracted:06/17/99

Concentrated Extract Volume:

Date Analyzed: 06/22/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER		IPOUND	NAME	RT	CONC.	Q
1. 2.	UNKNOWN			11.42	3	J
3					 	
5. 6.						
6. 7. 8.					-	
10.			· · · · · · · · · · · · · · · · · · ·		 	
11.					 	
13. 14. 15.	<u> </u>			\	 	
16.					 	
19.			· · · · · · · · · · · · · · · · · · ·			
20						
22.					 	
24. 25. 26.					 	
27. 28.						
29. 30.						

FORM I SV-TIC

OLM03.0

Lab Name: COMPUCHEM

Q

FB03-09 Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945491

Sample wt/vol: 1050 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 06/15/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

 $\# \mathbb{R}^{n} \times \mathbb{R}^{n}$ 

# INORGANIC ANALYSES DATA SHEET

ah Nama : COMDI	COLUM		Contract: I		FB03-09
ab Name: COMPI		70 No 24			SDC No - 00005
ab Code: COMP	J_ Ca:	se No.: 34.	ZUU_ SAS NO.	·	SDG No.: 00005_
Matrix (soil/wa	ater): WATE	R		Lab Sampl	e ID: 945491
Level (low/med)	): LOW	_   .		Date Rece	ived: 06/15/99
Solids:	0.0	0			
Cor	ncentration	Units (ug	/L or mg/kg dry	y weight):	UG/L
	CAS No.	Analyte	Concentration	CQ	М
	7429-90-5	Aluminum	33.2	$\overline{v}$   $\overline{v}$	P
		Antimony_	1.8		P_
	7440-38-2	Arsenic	2.0		P P
	7440-39-3 7440-41-7	Barium_ Beryllium	0.46	B	P_
	1	Cadmium	0.50	[ ]	p
	7440-70-2	Calcium	82.3		P
· .	7440-47-3	Chromium	1.4	B	P
	7440-48-4	Cobalt	0.60		P_
	7440-50-8	Copper	1.1	[U]:	P
	7439-89-6	Iron	80.6		P
	7439-92-1	Lead	1.0		P_  P_
	7439-95-4 7439-96-5	Maghesium  Manganese			P
	7439-98-5	Mercury	0.05		CV
	7440-02-0	Nickel	1.1		l l
	7440-09-7	Potassium		U	P_ P_
	7782-49-2	Selenium_	3.1	ט	P
	7440-22-4	Silver	0.30	ע	P
	1	Sodium	2220	B	P
	l .	Thallium_	4.1	U	P
•	7440-62-2 7440-66-6	Vanadium_  Zinc	0.60	[ <sup>0</sup> ]	P_ P_
	7440-00-0	Cyanide	4.7		CA
Color Before:	COLORLESS	Clari	ty Before: CLE	AR_	Texture:
Color After:	COLORLESS	Clari	ty After: CLE	AR_	Artifacts:
Comments:					
	•				
				<del></del>	<del></del>
	<del></del>	!			

FORM I - IN

ILM04.0

FB04-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945666

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: CN045666A57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/29/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: \_\_\_\_\_(uL Soil Extract Volume: \_\_\_\_(uL)

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) ug/L

		<u> </u>
74-87-3Chloromethane	10	IJ
74-83-9Bromomethane	10	
75-01-4Vinyl Chloride	10	
75-00-3Chloroethane	10	-
75-09-2Methylene Chloride	2	
67-64-1Acetone	3	J
75-15-0Carbon Disulfide	10	
75-35-41,1-Dichloroethene	10	-
75-34-31,1-Dichloroethane	10	1
67-66-3Chloroform	10	_
107-06-21,2-Dichloroethane	10	-
78-93-32-Butanone	10	-
71-55-61,1,1-Trichloroethane	10	_
56-23-5Carbon Tetrachloride	10	-
75-27-4Bromodichloromethane	10	
78-87-51,2-Dichloropropane	10	
10061-01-5cis-1,3-Dichloropropene	10	-
79-01-6Trichloroethene	10	h -
124-48-1Dibromochloromethane	10	
79-00-51,1,2-Trichloroethane	10	
71-43-2Benzene	10	4 -
10061-02-6trans-1,3-Dichloropropene	10	_
75-25-2Bromoform	10	L
108-10-14-Methyl-2-Pentanone	10	
591-78-62-Hexanone	10	1
127-18-4Tetrachloroethene	10	_
79-34-51,1,2,2-Tetrachloroethane	10	1
108-88-3Toluene	10	
108-90-7Chlorobenzene	10	
100-41-4Ethylbenzene	10	
100-41-4Styrene	10	
1330-20-7Xylene (Total)	10	1
540-59-01,2-Dichloroethene (total)		1 -
540-53-01,2-Diditoroechene (cocar)	10	١٠
	l <del></del>	l

1E

EPA SAMPLE NO.

FB04-09

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Law

Name: COMPUCLEM	Contract: OLM03-REVS

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945666

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: cn045666a57

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/29/99

GC Column: EQUITY624 ID: 0.5 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_\_(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1				
4. 5.				
7 8				
9. 10. 11.				
12. 13. 14.				
15. 16. 17.				
19.				
21. 22. 23.				
24. 25. 26.				
27. 28. 29.				
30				

FORM I VOA-TIC

Lab Name: COMPUCHEM Contract: OLM03-REVS FB04-09

b Code: COMPU Case No.: 34200 SAS No.: SDG No.: 0.0005

Matrix: (soil/water) WATER Lab Sample ID: 945666

Sample wt/vol: 990 (g/mL) ML Lab File ID: GH045666A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: \_\_\_\_ decanted: (Y/N)\_\_\_ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

108-95-2----Phenol 10 U 111-44-4-----bis(2-Chloroethyl)ether 10 U 95-57-8----2-Chlorophenol 10 U 541-73-1----1,3-Dichlorobenzene 10 U 106-46-7-----1,4-Dichlorobenzene 10 U 95-50-1------1,2-Dichlorobenzene\_ 95-48-7-----2-Methylphenol\_ 10 0 10 U 108-60-1----2,2'-oxybis(1-Chloropropane) 10 U 106-44-5----4-Methylphenol 10 U 621-64-7----N-Nitroso-di-n-propylamine 10 U 67-72-1------Hexachloroethane 10 U 98-95-3-----Nitrobenzene 10 U 78-59-1-----Isophorone 10 U 88-75-5----2-Nitrophenol 10 U 105-67-9-----2,4-Dimethylphenol 10 U 111-91-1-----bis(2-Chloroethoxy)methane 10 U 120-83-2----2,4-Dichlorophenol 10 U 120-82-1----1,2,4-Trichlorobenzene 10 U 91-20-3-----Naphthalene 10 U 106-47-8-----4-Chloroaniline 10 U 87-68-3-----Hexachlorobutadiene 10 U 59-50-7----4-Chloro-3-methylphenol 10 U 91-57-6----2-Methylnaphthalene 10 U 77-47-4------Hexachlorocyclopentadiene 10 U 88-06-2----2,4,6-Trichlorophenol 10 U 95-95-4----2,4,5-Trichlorophenol 25 U 91-58-7----2-Chloronaphthalene 10 U 88-74-4----2-Nitroaniline 25 U 131-11-3-----Dimethylphthalate 10 U 208-96-8-----Acenaphthylene 10 U 606-20-2----2,6-Dinitrotoluene 10 U 99-09-2----3-Nitroaniline — 25 U 83-32-9-----Acenaphthene 10 U

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FB04-09 Contract: OLM03-REVS Lab Name: COMPUCHEM Case No.: 34200 SAS No.: SDG No.: 00005 Lab Code: COMPU Matrix: (soil/water) WATER Lab Sample ID: 945666 990 (a/mL) ML Lab File ID: GH045666A66 Sample wt/vol: Date Received: 06/16/99 Level: (low/med) LOW % Moisture: \_\_ decanted: (Y/N) Date Extracted:06/17/99 Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99 2.0 (uL) Dilution Factor: 1.0 Injection Volume: GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

25 U 25 U 51-28-5-----2,4-Dinitrophenol 100-02-7-----4-Nitrophenol\_\_\_\_ 132-64-9-----Dibenzofuran 10 U 121-14-2----2, 4-Dinitrotoluene 10 U 84-66-2-----Diethylphthalate 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7----Fluorene 10 U 100-01-6-----4-Nitroaniline 25 U 534-52-1----4,6-Dinitro-2-methylphenol 25 U 86-30-6----N-nitrosodiphenylamine (1) 10 U 101-55-3-----4-Bromophenyl-phenylether 10 U 118-74-1-----Hexachlorobenzene 10 U 25 U 87-86-5-----Pentachlorophenol 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 86-74-8-----Carbażole 10 U 84-74-2-----Di-n-butylphthalate 10 U 206-44-0-----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1----3,3'-Dichlorobenzidine 10 U 56-55-3-----Benzo(a) anthracene 10 U 218-01-9-----Chrysene 10 U 10 U 10 U 10 U 10 U 10 U 193-39-5-----Inden (1, 2, 3-cd) pyrene 10 U 53-70-3-----Dibenzo(a,h)anthracene 10 U 191-24-2----Benzo(g,h,i)perylene 10 U (1) - Cannot be separated from Diphenylamine

FORM I SV-2

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Code: COMPU Case No.: 34200 SAS No.:

EPA SAMPLE NO.

SDG No.: 00005

FB04-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Matrix: (soil/water) WATER Lab Sample ID: 945666

Sample wt/vol: 990 (g/mL) ML Lab File ID: GH045666A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: \_\_\_ decanted: (Y/N)\_\_\_ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1				
4.	·			
6. 7. 8.				
9. 10. 11.		<u> </u>		
12. 13. 14.			-	
15. 16. 17.				
18. 19. 20.				
21. 22. 23.				
24. 25. 26.				
28				
30.				

FORM I SV-TIC

OLM03.0

#### PESTICIDE ORGANICS ANALYSIS DATA SHEET

FB04-09

Lab Name: COMPUCHEM Contract: OLM03-REVS

Lab Code: COMPU Case No.: SDG No.: 00005

Matrix: (soil/water) WATER Lap Sample ID: 945666

Sample wt/vol: 1050 (g/mL) ML Lab File ID:

% Moisture: \_\_\_\_ decanted: (Y/N) \_\_\_ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

319-84-6-----alpha | BHC 0.048 U 319-85-7-----beta-BHC 0.020 JP 319-86-8-----delta+BHC 0.0012 JP 0.048 U 0.048 U 309-00-2-----Aldrin 0.048 U 1024-57-3-----Heptachlor epoxide 0.048 U 959-98-8-----Endosulfan I 0.048 U 0.095 U 0.095 U 0.095 U 0.095 U 60-57-1-----Dieldrin 72-55-9-----4,4'-DDE 72-20-8-----Endrin 33213-65-9-----Endosulfan II 0.095 U 72-54-8-----4,4'-DDD 1031-07-8-----Endosulfan sulfate 0.095 U 50-29-3-----4,4'-DDT 0.095 U 72-43-5-----Methoxychlor 0.48 U 53494-70-5----Endrin ketone ០.095 ប 7421-93-4----Endrin aldehyde 0.095 U 5103-71-9-----alpha {Chlordane 0.048 U 5103-74-2----gamma-Chlordane 0.048 U 8001-35-2-----Toxaphene 4.8 U 0.95 | บ 12674-11-2----Aroclor-1016 11104-28-2----Aroclor-1221 1.9 U 0.95 U 11141-16-5----Aroclor-1232 0.95 U 53469-21-9----Aroclor-1242 0.95 U 12672-29-6----Aroclor-1248 0.95 U 11097-69-1----Aroclor-1254 11096-82-5----Aroclor-1260 0.95 U

FORM I PEST

### 1 INORGANIC ANALYSES DATA SHEET

DIA DAMEND NO	EPA	SAMPLE	NO
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Name: COMP	UCHEM		Contract: II	LM04.0	F'B04-09
			200_ SAS No.:	_	SDG No.: 00005_
Matrix (soil/w	ater): WATE	×		Lab Sampl	e ID: 945666
Level (low/med	LOW	<del>-</del> .		Date Rece	ived: 06/16/99
% Solids:	0.0	O .			
Co	ncentration	Units (ug/	/L or mg/kg dry	y weight):	UG/L
÷	CAS No.	Analyte	Concentration	C Q	М
	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-95-4 7439-97-6 7440-02-0 7440-02-0 7440-23-5 7440-23-5 7440-62-2 7440-66-6	Aluminum_ Antimony_ Arsenic_ Barium_ Beryllium Cadmium_ Calcium_ Chromium_ Cobalt_ Copper_ Iron_ Lead_ Magnesium Manganese Mercury_ Nickel_ Potassium Selenium_ Silver_ Sodium_ Thallium_ Vanadium_ Zinc_ Cyanide_ ————————————————————————————————————	0.50 59.4 0.90 0.60 1.1 18.9 1.0 17.3 0.30 0.05 1.0 61.8	B B U B U U U U B B U U U U B B U U U B B U U U B B U U U B B U U U B B U U U B B U U U B B U U U B B U U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B B U U B U B U U B B U U B U B U U B U B U U B U D U B B U U U U B B U U U U B B U U U U B B B U U U U B B U U U U B B U U U U B B U U U U B B U U U U U B B U U U U U B B U U U U U B B U U U U U B B U U U U U B B U U U U U B B U U U U U B B U U U U U B B U U U U U B B U U U U U B U U U U U B B U U U U U U B B U U U U U U B U	P
Color Before:	COLORLESS	Clari	ty Before: CLE	AR. <u>.</u>	Texture:
Color After:	COLORLESS	Clari	ty After: CLE	AR_	Artifacts:
Comments:					

FORM I - IN

ILM04.0

FB05-09 Contract: OLM03-REVS Lab Name: COMPUCHEM Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005 Matrix: (soil/water) WATER Lab Sample ID: 945667 Lab File ID: Sample wt/vol:  $5.0 \left( \frac{g}{mL} \right) mL$ CN045667A57 Level: (low/med) LOW Date Received: 06/16/99 Date Analyzed: 06/29/99 % Moisture: not dec. ID: 0.53 (mm) Dilution Factor: 1.0 GC Column: EQUITY624 Soil Aliquot Volume: Soil Extract Volume: (uL) CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) ug/L

	(43, 2 31 43	,, <u>-</u> -		
74-87-3	Chloromethane		1 (	ט ט
	Bromomethane	-		ו סוס
	Vinyl Chloride	-	-	ט ט
	Chloroethane	-		ט ט ט
	Methylene Chloride	-1	14	
67-64-1		-	2:	
	Carbon Disulfide	-  '	1	
	1,1-Dichloroethene	-		olu l
	1,1-Dichloroethane	-		סוט ו
	Chloroform	-		ī J
107-06-2	1,2-Dichloroethane	-   `.		סוס ו
78-93-3	2-Butanone	-[		3 J
	1,1,1-Trichloroethane	-		οŪ
	Carbon Tetrachloride	-  •		้อ ไซ้
	Bromodichloromethane	-		ו סוס
	1,2-Dichloropropane	-		olu l
10061-01-5	cis-1,3-Dichloropropene	-		้อไซ
79-01-6	Trichloroethene	-		ס ט
124-48-1	Dibromocnloromethane	-  '	*	סוט
79-00-5	1,1,2-Trichloroethane	- .		ס ט
71-43-2	Benzene	-		0 U
	trans-1,3-Dichloropropene	-		olu
	Bromoform	-[	1	0 U
108-10-1	4-Methyl-2-Pentanone	-\ ·		2 J
	2-Hexanone	-  -	The second secon	olu
127-18-4	Tetrachloroethene	-	1	סט
79-34-5 <b>-</b>	1,1,2,2-Tetrachloroethane	_	1	olu
108-88-3	Toluene	_		2   J
108-90-7	Chlorobenzene	-	1	o U
100-41-4	Ethylbenzene	-	1	0   U
100-42-5	Styrene	_   .	1	O U
	Xylene (Total)	_	1	0 U
540-59-0	1,2-Dichloroethene (total)_	_	1	0 0
l		_	<u> </u>	

FORM I VOA

## 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Soil Aliquot Volume: \_\_\_\_ (uL

					FB05-09
Lab	Name:	COMPUCHEM	Contract:	OLM03-REVS	
					l <del></del>

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945667

Lab File ID: cn045667a57 Sample wt/vol: 5.0 (g/mL) mL

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: not dec. Date Analyzed: 06/29/99

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) ug/L

Soil Extract Volume: (uL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1:	·	· · · · ·		
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4. 5.			<u> </u>	
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19.	<del></del>			
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22.			· · · · · · · · · · · · · · · · · · ·	
24.		·		
25.			·	
21.				
28.	·			
30.				

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: COMPUCHEM Contract: OLM03-REVS FB05-09

Lab Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 945667

Sample wt/vol: 910 (g/mL) ML Lab File ID: GH045667A66

Level: (low/med) LOW Date Received: 06/16/99

% Moisture: decanted: (Y/N) \_\_\_ Date Extracted:06/17/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

injection volume. 2.0 (db) Dilacton lactor. 1.0

pH:

GPC Cleanup:

(Y/N) N

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

FORM I SV-1

FB05-09 Lab Name: COMPUCHEM Contract: OLM03-REVS b Code: COMPU Case No.: 34200 SAS No.: SDG No.: 00005 Lab Sample ID: 945667 Matrix: (soil/water) WATER Sample wt/vol: 910 (g/mL) ML Lab File ID: GH045667A66 Date Received: 06/16/99 Level: (low/med) LOW decanted: (Y/N) Date Extracted:06/17/99 % Moisture: Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/22/99 2.0 (uL) Dilution Factor: 1.0 Injection Volume: GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 51-28-5-----2,4-Dinitrophenol 27 U 100-02-7-----4-Nitrophenol 27 U 132-64-9-----Dibenzofuran 11 U 121-14-2----2,4-Dinitrotoluene 11 U 84-66-2-----Diethylphthalate 11 | U 7005-72-3-----4-Chlorophenyl-phenylether 11 U 86-73-7-----Fluorene 11 U 100-01-6-----4-Nitroaniline 27 U 534-52-1-----4,6-Dinitro-2-methylphenol 27 U 86-30-6----N-nitrosodiphenylamine\_(1) 11 U 101-55-3-----4-Bromophenyl-phenylether 11 U 118-74-1------Hexachlorobenzene 11 U 87-86-5-----Pentachlorophenol 27 U 85-01-8-----Phenanthrene 11 | U 120-12-7-----Anthracene 11 | U 86-74-8------Carbazole 11 U 84-74-2-----Di-n-butylphthalate 11 U 206-44-0-----Fluoranthene 11 U 129-00-0-----Pyrene 11 U 85-68-7-----Butylbenzylphthalate 11 U 91-94-1-----3,3'-Dichlorobenzidine 11 U 56-55-3-----Benzo(a) anthracene 11 U 218-01-9-----Chrysene 11 ע

FORM I SV-2

117-81-7-----bis(2-Ethylhexyl)phthalate

117-84-0-----Di-n-octylphthalate

193-39-5-----Indeno(1,2,3-cd)pyrene\_\_\_

(1) - Cannot be separated from Diphenylamine

53-70-3-----Dibenzo(a,h)anthracene

205-99-2-----Benzo (b) fluoranthene

207-08-9------Benzo(k) fluoranthene

191-24-2-----Benzo(g,h,i)perylene

50-32-8-----Benzo(a)pyrene

11 U

11 U

11 U

11 U

11 U

11 U

11 U

11 U

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY | IDENTIFIED COMPOUNDS

COLLEGERO	
	FB05-09
ontract: OLM03-REVS	_ · ·

vanic	•	COr	II O	(LI)	-1-1
	Tanic	Tanc,	iame, cor	tame, corre	Name: COMPUCH.

Lab Code: COMPU Case No : 34200 SAS No .:

, SDG No.: 00005

Matrix: (soil/water) WATER

Lab Sample ID: 945667

Sample wt/vol:

LOW

910 (g/mL) ML

Lab File ID: GH045667A66

Level: (low/med)

Date Received: 06/16/99

% Moisture: decanted: (Y/N)\_\_\_

1000 (uL)

Date Extracted:06/17/99

Concentrated Extract Volume:

Date Analyzed: 06/22/99

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	==========	MPOUND NAME	RT	EST. CONC.	Q =====
1. 2. 3	UNKNOWN (B	c)	4.71 19.36	6 3	J JB
4 5 6.					
7. 8. 9.					
10. 11. 12.					
13. 14. 15.					
16. 17. 18.					
19. 20. 21.					
22. 23. 24.					
25. 26. 27.					
28. 29. 30.					

FORM I SV-TIC

OLM03.0

SDG No.: 00005

Lab File ID:

FB05-09 Lab Name: COMPUCHEM Contract: OLM03-REVS

b Code: COMPU Case No.: 34200 SAS No.: Matrix: (soil/water) WATER

Lab Sample ID: 945667 Sample wt/vol: 1040 (g/mL) ML

% Moisture: \_\_\_\_\_ decanted: (Y/N)\_\_\_\_ Date Received: 06/16/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/17/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/06/99

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. (ug/L or ug/Kg) UG/L COMPOUND

319-84-6	-alpha-BHC	0.048	U
319-85-7	-beta-BHC	0.0079	
319-86-8		0.048	
58-89-9	-gamma-BHC (Lindane)	0.048	
76-44-8	-Heptachlor	0.048	ប
309-00-2	-Aldrin	0.048	
1024-57-3	-Heptachlor epoxide	0.048	
959-98-8	-Endosulfan I	0.048	
60-57-1		0.096	ש
72-55-9	-4,4'-DDE	0.096	U
72-20-8		0.096	U
	-Endosulfan II	0.096	U
72-54-8		0.096	U
1031-07-8	-Endosulfan sulfate	0.096	
50-29-3	-4,4'-DDT	0.096	
72-43-5	-Methoxychlor	0.48	
53494-70-5	-Endrin ketone	0.096	
	-Endrin aldehyde	0.0049	
5103-71-9	-alpha-Chlordane	0.0015	
5103-74-2	-gamma-Chlordane	0.048	
8001-35-2		4.8	
12674-11-2		0.96	
11104-28-2		1.9	
11141-16-5		0.96	
53469-21-9		0.96	
12672-29-6		0.96	
11097-69-1		0.96	1
11096-82-5	-Aroclor-1260	0.96	U
			l

#### | 1 | INORGANIC ANALYSES DATA SHEET

	EPA	SAMPLE	NO
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ıb Name: COMPI	ICUEM		Contract: I	LM04 0	FB05-09
b Code: COMP	U_ Ca	se Nф.: 34	200_ SAS No.	:	SDG No.: 00005
trix (soil/wa	ater): WATE	R		Lab Samp	le ID: 945667
vel (low/med)	): LOW_	_		Date Rec	eived: 06/16/99
Solids:	0.0	0			
Co	ncentration	Units (ua	/L or mg/kg dry	v weight)	· 11G/1.
CO		onres (ag	/ E OI mg/kg di	, weight,	. 00/ =
	CAS No.	Analyte	Concentration	C Q	М
	7429-90-5	Aluminum	33.2	<sub>U</sub>	P
		Antimony	1.8		P
	7440-38-2	Arsenic	2.0	<del></del>	P_
	7440-39-3	Barium	1.9		P_
	7440-41-7	Beryllium			P_
	7440-43-9	Cadmium_	0.50		P_
	7440-70-2	Calcium_	10.7		P_ P_
	7440-47-3	Chromium_ Cobalt	1.4		P
	7440-48-4 7440-50-8	Copper Copper	1.1		P_
	7439-89-6	Iron	18.9		P_
	7439-92-1	Lead	1.0		P_
	7439-95-4	Magnesium			P
	7439-96-5	Manganese			P
	7439-97-6	Mercury	0.05	U	$ C\overline{V} $
	7440-02-0	Nickel	1.0	U	P_
	7440-09-7	Potassium			P_
	7782-49-2	Selenium_	3.1		P
	7440-22-4	Silver	0.47		P
	7440-23-5	Sodium	231		P
	7440-28-0	Thallium_	4.1		
	7440-62-2	Vanadium_  Zinc	0.60		P_ P
	7440-66-6	Cyanide	4.7		CA
		Cyanitue			CA
lor Before:	COLORLESS	   Clari	ty Before: CLE	AR_	Texture:
lor After:	COLORLESS	Clari	ty After: CLE	AR_	Artifacts:

FORM I - IN

ILM04.0

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